

COELAN TECHNICAL MANUAL





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PROCESSING AIDS

MOISTURE

As described in the relevant regulations (see Rule for water-proofings/DIN) as well as in the processing guidelines of the company KEMPER SYSTEM, waterproofings - made of liquid plastics - should adhere to the substrate over the entire surface. This is achieved by appropriate substrate pretreatment of the substrate to be sealed. Such measures include, for example, blasting a concrete surface to be primed or drying the substrate. These measures are known and familiar.

Moisture can occur in the form of:

- Water on the surface to be sealed
- Extremely high air humidity
- Moisture/water in joints (e.g., thermal insulation), expansion joints, cracks, and crevices
- Moisture/water in the area of large blowholes and in the case of large roughness depths on mineral substrates
- Condensate or water accumulation when the temperature falls below the dew point
- Condensate or water accumulation under stored containers
- Rain and snow

DEW POINT

The measures required for substrate pretreatment and preparation are familiar to anyone involved in building restoration. Less well known, but no less important, are the relationships which, due to the formation of condensation on the surface to be treated, prevent adhesion.

This condensation occurs at surface temperatures below the dew point. The dew point is the surface temperature at which the water contained in the ambient air condenses on a surface. This water forms a release film and the condition of full-surface adhesion is no longer fulfilled.

In principle, there are two ways to determine the dew point:

1. Measurement method:

The dew point can be determined with a measuring device. With these measured values, the dew point can be determined in the following table.

2. Table method:

By measuring the temperature of the surface to be treated, the relative humidity and the ambient temperature, the dew point can be determined using the following table. When working with liquid products, the temperature measured on the surface must be 3K above the specified dew point.

Substrates should always be dry.

Moist substrates must always dry before working with **COELAN** products. If the containers are left outdoors overnight, water may form or accumulate on the containers (e.g., dew, rain). This water must not be allowed to get into the containers when they are opened. Moisture may also be present or occur if the nonwoven is not stored properly and in or on the processing tools.

If you are unsure about the processing conditions or the substrate to be treated, please contact our Technical Advisory Service.

Air-temp. (°C)	Dew point temperatures in °C at a relative humidity of										
	45 %	50 %	55 %	60 %	65 %	70 %	75 %	80 %	85 %	90 %	95 %
2	-7.77	-6.56	-5.43	-4.40	-3.16	-2.48	-1.77	-0.98	-0.26	0.47	1.20
4	-6.11	-4.88	-3.69	-2.61	-1.79	-0.88	-0.09	0.78	1.62	2.44	3.20
6	-4.49	-3.07	-2.10	-1.05	-0.08	0.85	1.86	2.72	3.62	4.48	5.38
8	-2.69	-1.61	-0.44	0.67	1.80	2.83	3.82	4.77	5.66	6.48	7.32
10	-1.26	0.02	1.31	2.53	3.74	4.79	5.82	6.79	7.65	8.45	9.31
12	0.35	1.84	3.19	4.46	5.63	6.74	7.75	8.69	9.60	10.48	11.33
14	2.20	3.76	5.10	6.40	7.58	8.67	9.70	10.71	11.64	12.55	13.36
15	3.12	4.65	6.07	7.36	8.52	9.63	10.70	11.69	12.62	13.52	14.42
16	4.07	5.59	6.98	8.29	9.47	10.61	11.68	12.66	13.63	14.58	15.54
17	5.00	6.48	7.92	9.18	10.39	11.48	12.54	13.57	14.50	15.36	16.19
18	5.90	7.43	8.83	10.12	11.33	12.44	13.48	14.56	15.41	16.31	17.25
19	6.80	8.33	9.75	11.09	12.26	13.37	14.49	15.47	16.40	17.37	18.22
20	7.73	9.30	10.72	12.00	13.22	14.40	15.48	16.46	17.44	18.36	19.18
21	8.60	10.22	11.59	12.92	14.21	15.36	16.40	17.44	18.41	19.27	20.19
22	9.54	11.16	12.52	13.89	15.19	16.27	17.41	18.42	19.39	20.28	21.22
23	10.44	12.02	13.47	14.87	16.04	17.29	18.37	19.37	20.37	21.34	22.23
24	11.34	12.93	14.44	15.73	17.06	18.21	19.22	20.33	21.37	22.32	23.18
25	12.20	13.83	15.37	16.69	17.99	19.11	20.24	21.35	22.27	23.30	24.22
26	13.15	14.84	16.26	17.67	18.90	20.09	21.29	22.32	23.32	24.31	25.16
27	14.08	15.68	17.24	18.57	19.83	21.11	22.23	23.31	24.32	25.22	26.10
28	14.96	16.61	18.14	19.38	20.86	22.07	23.18	24.28	25.25	26.20	27.18
29	15.85	17.58	19.04	20.48	21.83	22.97	24.20	25.23	26.21	27.26	28.18
30	16.79	18.44	19.96	21.44	23.71	23.94	25.11	26.10	27.21	28.19	29.09
32	18.62	20.28	21.90	23.26	24.65	25.79	27.08	28.24	29.23	30.16	31.17
34	20.42	22.19	23.77	25.19	26.54	27.85	28.94	30.09	31.19	32.13	33.11
36	22.23	24.08	25.50	27.00	28.41	29.65	30.88	31.97	33.05	34.23	35.06
38	23.97	25.74	27.44	28.87	30.31	31.62	32.78	33.96	35.01	36.05	37.03
40	25.79	27.66	29.22	30.81	32.16	33.48	34.69	35.86	36.98	38.05	39.11
45	30.29	32.17	33.86	35.38	36.85	38.24	39.54	40.74	41.87	42.97	44.03
50	34.76	36.63	38.46	40.09	41.58	42.99	44.33	45.55	46.75	47.90	48.98

TEMPERATURES DURING PROCESSING

Based on our experience, the temperature range at which COELAN product systems can be processed without defects is between +5 °C and +30 °C (see also the relevant technical data sheets). Cooler processing temperatures can delay or even

prevent hardening. Warmer processing temperatures can lead to premature, unwanted skin formation and even bubbling.

WATERPROOFING ACCORDING TO THE REGULATIONS

If waterproofing is required according to the regulations, you can use **COELASTIC EVO** instead of the **COETRANS 1-K** Waterproofing Layer. **COELASTIC EVO** is a waterproofing system with European Technical Approval (ETA) that meets all requirements in the highest classes.

Reinforced with a fleece insert, **COELASTIC EVO** forms a seamless waterproofing that offers maximum safety and meets all requirements. For further information, please refer to our technical data sheets.

Priming Recommendations

In order for a coating system to form a permanent bond with the substrate, a thorough priming is necessary until the pores are sealed.

The consumption here depends on the absorption behavior of the various substrates.

Product	Substrate	Consumption	Drying time*
KEMCO POX 2K-Primer	mineral, ceramic	min. 250–400 g/m ²	approx. 12 h
COETRANS Transparent Primer	mineral, ceramic	min. 250–400 g/m ²	approx. 2 h
KEMCO LE Flexo Adhesive	old coating (COELAN)	min. 50 g/m ²	approx. 1 h
COELAN Flexo Primer	old coating (COELAN)	min. 50 g/m ²	approx. 1 h

* at 23 °C.

NOTE

For further information, please refer to the relevant technical data sheet.

PROCESSING INSTRUCTIONS

COELAN IN PROCESSING

Balconies, (roof) terraces, loggias, access balconies, external staircases and glass surfaces require precise objectives to be set when planning a refurbishment with regard to optimum, durable and economical long-term protection. As these areas are constantly exposed to the weather without protection, component movement, heat and frost can promote cracks and cause moisture damage. The direct consequence is extensive repairs and refurbishment measures.

Due to the wide range of stresses and strains and the varying conditions of the given building material, used outdoor areas require a qualified design with the corresponding detailed solutions. High levels of stress due to mechanical use and environmental pollution require particularly high-performance systems that also meet the requirements in terms of appearance thanks to various processing techniques.

Step 1 Substrate testing and assessment

The most important prerequisite for the durability of **COELAN** products is the bond to the substrate. Therefore, testing, assessment and preparation of the substrate are of the utmost importance. There are many possible substrates for balconies and terraces, e.g., old tiling, mastic asphalt, old paintwork or concrete or screed.

In accordance with the requirements of DIN 18365 for floor covering work, the substrate for all treatments must be firm,

free of loose particles and impurities and free of dust and oil. According to the VOB, the contractor must check the substrate for suitability for the application of the specified covering. The contractor must inform the client immediately in writing of any reservations about the intended type of execution if this does not correspond to the condition of the substrate.

1. CHECKING THE SUBSTRATE FOR MOISTURE

Screed and concrete surfaces can only be coated when they have a residual moisture content of less than 5 %. For fresh cement screed and concrete surfaces, this is generally not the case until 28 days after mounting.

Substrates in contact with the ground must be sufficiently protected against groundwater and rising damp (capillary moisture), e.g., by a gravel filter layer and horizontal barrier. So-called barrier concrete and barrier screed do not provide

protection against moisture penetration because they are permeable to water vapor. Moisture measurements can be carried out using the CM device or corresponding moisture meters. All residual moisture levels of 5 % specified in the technical data sheets refer to the measurement with the CM device. The figures are therefore in % by mass.

2. CHECKING THE SUBSTRATE FOR MOISTURE FOR CONCRETE / SCREED

The substrate must always have sufficient strength. The compressive strength of concrete and bonded screeds can be determined using a Schmidt hammer. It should have a value of at least 30 N/mm².

The tear strength is determined using an adhesive tensile

tester. The average value must be at least 1.5 N/mm² and the minimum value at least 1.0 N/mm². **COELASTIC EVO** waterproofing has a high inherent strength, is crack-bridging and elastic.

Step 2 Preparation of the substrate

The substrate must be prepared in such a way that a firm and durable bond is achieved between the system to be applied and the substrate. For this purpose, the substrate must be evenly firm and free of separating substances, sharp edges and burrs.

The choice of suitable preparation method depends on the condition and material of the existing surface and the requirements of the subsequent waterproofing system.

In addition to the „classic“ pretreatment methods

- Grinding (grinder)
- Cutting (angle grinder, floor cutter)
- Chiseling (chisel)
- Hammering (tapping machine, needle gun)
- Brushing
(hand brush, rotating brushes, brushing machine)
- Milling (milling machine)
- Sweeping (broom, magnetic broom, sweeping machine)
- Blowing off (hot, warm air)
- Vacuuming (industrial vacuum cleaner)

The following cleaning and blasting devices are available

- Water jet cleaner up to 5 N/cm² (0.5 bar)
- Steam jet cleaners up to 5 N/cm² (0.5 bar)

- High-pressure water blasting devices up to 4000 N/cm² (400 bar)
- Wet blasting devices with blasting material recovery
- Damp mist sand blasting devices
- Damp sand blasting devices
- Dry blasting devices with abrasive recovery
- Free jet pressure devices
- Flame blasting according to DVS 0302
- Liquid nitrogen cleaning
- Infrared blasting

described in the literature (ZTVSIB/DAfStb). Furthermore, the cleaning methods must be carried out with solvents, which are used in particular for greasy or atmospheric contamination and/or plastic sheets.

Step 3 Substrate pretreatment

1. EVENNESS OF THE SUBSTRATE

Substrates must be level and have a required slope of 1-2 %. The assessment of evenness is based on DIN 18202 Dimensional tolerance in building construction, Table 3, Part 3.

Unevenness cannot be evened out with a **COELAN primer** and requires special treatment. Unevenness must be evened out either by removing the surface or by applying a scratch coat or EP mortar from COELAN. The scratch coat consists of a mixture of **KEMCO POX 2K primer** and **KEMCO FL special filler** in a ratio of 1:1.5 or 1:3 by weight.

The scratch coat or leveling filler is used for unevenness of 2-6 mm. After drying, the EP mortar must be primed again using COELAN adjusting agent.

2. SOILING

COELAN primers have little or very poor adhesion to soiled substrates. For this reason, depending on the type of soiling, the surface must be cleaned until it is completely clean, e.g., using an industrial vacuum cleaner,

KEMCO MEK cleaning agent, scrubbing machines or flame blasting. Substrates containing bitumen or products containing tar oil are cleared up or completely removed by milling or blasting.

3. POROUS AND DETACHABLE COMPONENTS

Cement slurry, cement shells, mortar residues and all surface components such as old paint coats that do not adhere firmly and permanently to the substrate must be removed

before priming work by chiseling, milling, blasting or grinding and can be leveled as described under point 1.

4. CRACKS IN THE SUBSTRATE

In the case of cementitious substrates, net-like surface cracks have no detrimental effect on the COELAN product systems; however, additional consumption of bonding agent/primer must be taken into account, as priming must be carried out until saturation.

Continuous shrinkage cracks, settlement cracks and other cracks caused by structural movements must be assessed on a case-by-case basis in accordance with the „state of the art“ and closed using appropriate methods.

5. JOINTS IN THE SUBSTRATE

Joints should be straight, evenly wide and have firm joint edges. Damage can be repaired with repair mortar as described under point 1 „Evenness of the substrate“.

Existing expansion joints in the substrate must be taken over with the same coverage and finished with the sealant (e.g.,

KEMCO GUM joint grouting).

6. HOLLOW AREAS

Hollow surfaces, e.g., old tile coverings, must be removed and can be leveled with the scratch coat or leveling filler.

INFO

Data sheets and standards to be observed

- DIN 18299 – Regulation for all types of construction work
- DIN 18336 – Waterproofing work
- DIN 18352 – Tiling and paving work
- DIN 18353 – Screed work
- DIN 18365 – Floor covering work
- DIN 18202 – Measurement tolerances in building construction
- DIN 18531-18534
- COELAN Technical data sheets



CONSUMPTION TABLES

CONSUMPTION COETRANS

BALCONY COATING TRANSPARENT

Product	Consumption
COETRANS Transparent Primer	min. 250 g/m ²
COETRANS Balcony Coating Transparent	min. 1.200 g/m ²

CONSUMPTION COETRANS

BALCONY COATING COLOURED

Product	Consumption
COETRANS 1-K Waterproofing Layer	min. 800 g/m ²
COETRANS Balcony Coating Coloured	min. 1.200 g/m ²

CONSUMPTION COETRANS FC

Product	Consumption
COETRANS Balcony Coating Coloured	min. 600 g/m ²
COETRANS Balcony Coating Transparent (as adhesive layer)	min. 150-200 g/m ²
COETRANS Coloured Flakes (full-surface colored flakes spreading)	min. 700 g/m ²
COETRANS Coloured Flakes (partial-surface colored flakes spreading)	min. 100 g/m ²
COETRANS Balcony Coating Transparent (as sealing)	min. 500 g/m ²

CONSUMPTION COETRANS DE

Product	Consumption
COETRANS 1-K Waterproofing Layer	min. 800 g/m ²
COETRANS Balcony Coating Transparent (as adhesive layer)	min. 150-200 g/m ²
KEMCO Coloured quartz	min. 4 kg/m ²
COETRANS Balcony Coating Transparent (as sealing)	min. 500 g/m ²

CONSUMPTION COETRANS DS

Product	Consumption
COETRANS 1-K Waterproofing Layer	min. 800 g/m ²
COETRANS 1-K Binder (as adhesive layer)	min. 150 g/m ²
COETRANS 1-K Binder	min. 950 g/m ²
KEMCO Decor Stone/Natural stones	min. 12 kg/m ²

CONSUMPTION COETRANS CQ

Product	Consumption
COETRANS 1-K Waterproofing Layer	min. 800 g/m ²
COETRANS 1-K Binder (as adhesive layer)	min. 150 g/m ²
COETRANS 1-K Binder	min. 700 g/m ²
KEMCO Coloured quartz	min. 7 kg/m ²



OVERVIEW NATURAL STONE COVERINGS

COELAN Coloured Flakes

COELAN colored flakes can be used for decorative scattering in a wide variety of coating systems if followed by a transparent final coating or sealing.

The ready-to-use product is available in a wide range of color combinations and different sizes.

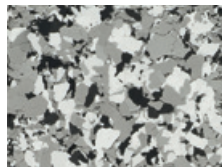
COELAN COLOURED FLAKES OPTIONS



Coral red



Terrazzo pastel



Pebble grey



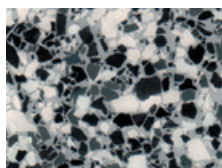
Grey blue



Akoya



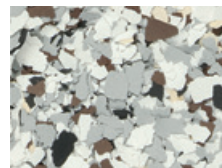
Silver grey



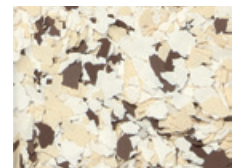
Terrazzo granite



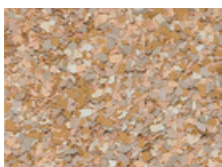
Granite



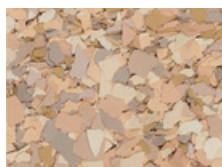
Brown grey



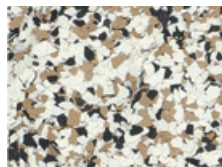
Beige brown



Amber



Ochre brown



Beige melange



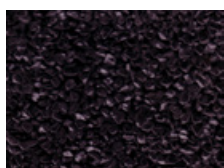
Aquamarine

KEMCO Decor Stone / Natural stones

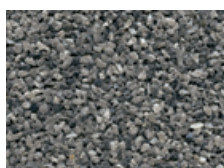
KEMCO Decor Stones can be used for the decorative design of various balcony, terrace, wall and floor coating systems. The use of natural stones is not only reflected in a wide variety of colors,

but also in the high load-bearing capacity and slip resistance of the floor covering as well as in reliable protection through UV and weather resistance.

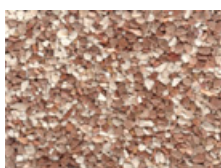
KEMCO DECOR STONE / NATURAL STONES OPTIONS



Black



Anthracite



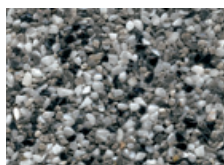
Light brown / terra



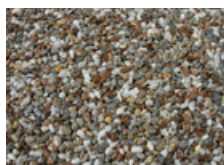
Dark beige



Light grey



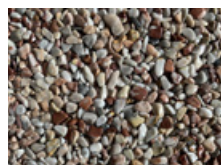
Contrasting black



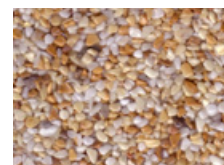
Contrasting brown



Chestnut



Copper / beige



Contrasting sienna

KEMCO COLOURED QUARTZ

KEMCO Colorit quartzes can be used as a decorative scattering in various coating systems if followed by a transparent final coating or sealing. The floor covering is also highly resilient, temperature and weather resistant.

Thanks to its slip classification, it is also ideal for outdoor stairs, balconies and terraces.

KEMCO COLOURED QUART Z OPTIONS



Graphite



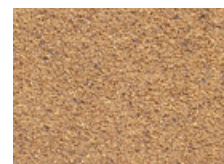
Umbra



Agate



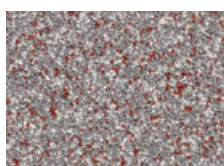
Papyrus



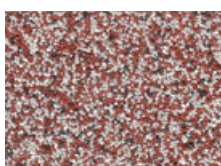
Ochre



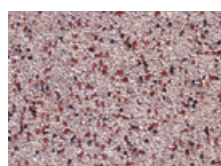
Grey / white / black



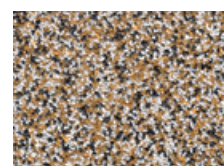
Grey / white / red



Red / white / black



Graphite / oxide / ivory



Yellow / white / black

FURTHER INFORMATION AND TIPS

SPECIAL NOTES ON THE COELAN

FILLER SYSTEMS

COELAN Thixotropic Agent

For fillers in the plinth and upstand area, COELAN adjusting agent must be added to the appropriate mixing batch and mixed carefully and evenly (see technical data sheet).

KEMCO Decor Stone / Natural stones

To avoid color differences in the KEMCO Decor Stone/Nature stones (= natural product), it is advisable to pour and mix the required quantities several times.

KEMCO Coloured quartz

For ready-mixed KEMCO Colorit quartzes, it is also advisable to mix the contents of the bag beforehand, as smaller quartz particles can settle due to vibrations during transport and thus cause an impairment of the coloration.

COELAN Gleitol

When using COELAN Gleitol, make sure that it does not drip onto a substrate that is still to be coated, as this will cause adhesion problems.

Cleaning

Surfaces that have been smoothed with COELAN Gleitol should be wiped with a cloth after the filler has dried, as the substrate may be slippery due to the COELAN Gleitol.

TIPS, TRICKS & NOTES

Application technology / work organization

All systems described are carried out using standard tools. Fur rollers or mohair rollers are generally used to apply the liquid primer and coating materials. They should be replaced with new ones after each use in order to achieve a perfect surface result. Areas that are not to be coated must be taped off before each coating process. The adhesive tapes are removed directly after the material has been applied in a fresh state. For Colorit quartz and natural stone mixtures, select suitably powerful electronic agitators to ensure thorough mixing of the materials.

Plan and organize the processes on site to avoid work interruptions after the production of mixtures or partial coating applications.

Checklists of materials and tools help with setting up and running the site. If the weather conditions are uncertain and the surface is exposed to excessive sunlight, always consider enclosing the object to counteract negative influences.

This prevents damage to the coating base.

Waterproofing according to the regulations

We have suitable solutions available for surface waterproofing in accordance with the flat roof directive. Ask for the relevant information.

Silky matt sealing

COETRANS balcony coating, both in transparent and colored versions, forms a glossy surface after hardening. If a silky matt coating is required, the COETRANS silky matt top coat must be applied to the corresponding COETRANS coat as an additional final coat with a material consumption of approx. 250 g/m².

Material consumption

The consumption quantities stated in this brochure were determined on even substrates and are based on the consumption quantities for the required layer thickness. Additional material consumption for leveling cracked, rough, uneven or absorbent substrates, as well as deeper joints, must be taken into account separately.

Hardening

The drying times stated in this brochure were determined using measurements at +20° C and 50 % relative humidity. Depending on the project, a full-surface fleece or fabric insert can also be installed in the COETRANS 1-K Waterproofing Layer or COETRANS Balcony Coating Colored. This insert consists of COELAN poly fleece. With a full-surface insert, the specified material consumption increases to at least 1.2 kg/m². During application, care must be taken to ensure that the insert is sufficiently saturated with COETRANS 1-K Waterproofing Layer or COETRANS Balcony Coating Colored and that there is an overlap of at least 5 cm at the joints.

COETRANS 1-K Waterproofing Layer

The polyurethane waterproofing layer serves as the first waterproofing layer during renovation work. It is not light-fast and must be reworked in color. COETRANS Balcony Coating Colored can also be applied as the first coating layer instead of the waterproofing layer.

Product quality

The quality of all our products must not be altered by dilution or other additives! Use up opened containers, if

possible, otherwise close them tightly and airtight. It is advisable to cover the liquid level of the material with a film before closing the opened container.

Smaller residual quantities are also suitable for creating samples for your future customers. Please only ever use material from one production batch on one surface, as slight color differences cannot be ruled out.

Technical data of the products

If necessary, please request our respective technical data sheets or find out more on the Internet at www.coelan.de.

Cleaning and care

All COETRANS system superstructures require regular care and cleaning. Detailed information on this can be found in our separate information booklet „Cleaning instructions“.

COETRANS coatings have elastic and vapor-permeable properties which are also necessary in outdoor areas. Due to the use of high-quality raw materials, COETRANS coatings are resistant to most environmental influences. Nevertheless, discoloration may occur in individual cases in connection with copper, rust, blossoms or leaves that deposit acids during weathering.

Some colorants (e.g., wood oils, stains, glazes, etc.) can cause irreparable discoloration, but these do not affect the material properties of the coating.

Hazard and safety instructions

Please observe the relevant information on the labels of the product containers, our technical data sheets and the EC safety data sheets. Products must be kept away from children.

TECHNICAL DATA SHEETS

COELAN Primer EP Plus

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Quickly recoatable primer for mineral substrates, metal and wood indoors and outdoors.

Material can be filled with KEMCO FL Special Filler filled as a scratch and equalizing filler.

Colour / Gloss:

- transparent blue

Product features:

- fast hardening
- solvent-free
- almost odourless
- high adhesiveness
- system-relevant filler materials can be added
- 2-component
- Based on: Epoxy resin

Container size:

5 kg working pack

Material consumption:

- at least 300 g/m² (depending on the absorbency of the substrate)
- at least 150 g/m² as adhesive layer for spatula-coverings in the upstand area

Shelf Life:

Use by: 24 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- rain-resistant after approx. 3 h
- after approx. 4 h resilient enough to carefully walk and work on

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Application time:

- approx. 20 min

Mixing ration:

- 2,33:1 (proportion of weight comp. A : comp. B)

Skin forming time:

approx. 20 min.

Specific gravity:

approx. 1.12 g/cm³ (mixed density)

GISCODE:

RE1

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- The surface must be clean, dry, level, load-bearing, firm and absorbent. Any surface soiling (e.g. oil, grease, dust, loose parts, rubber abrasion, silicone), residues of old coatings, after-treatment films, sintered layers, cement slurries and other less resistant layers must be removed. After cleaning the substrate, vacuum the surface with an industrial vacuum cleaner.
- For mineral substrates, the surface strength (test of peel strength according to DIN EN ISO 7500-1 Supplement 1) must be at least 1.5 N/mm² on average, with the smallest individual value not falling below 1.0 N/mm². The floor unevenness must not exceed the measurement tolerance in building construction according to DIN 18202.
- The moisture content of the substrate must not exceed 5 CM %.
- Local voids in the substrate can be detected by tapping the area. If found, they must be removed.
- Cavities, holes and cracks must be closed, and the profile of broken corners and/or edges must be re-shaped. To do this, a levelling compound or EP plaster are most suitable.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

KEMCO POX 2K Primer

Application area

- As a primer for dry and moist ceramic and mineral substrates
- As a primer for stainless steel, aluminium, structural steel and tinplate
- For new buildings and repair work
- Suitable for indoor and outdoor applications
- As filling compound in combination with KEMCO FL Special Filler

Features

- Solvent-free
- 2-component
- Water dilutable
- Permeable to water vapour
- Odourless
- Promotes adhesion
- Can be applied on moist substrates (residual moisture max. 20 %)
- Resin base: Epoxy resin
- EMICODE EC1 PLUS

Pack sizes

7 kg pack

Storage

Store unopened in a cool, frost-free and dry place, see label for use before date.

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C.

Avoid direct sunlight!

Consumption

Depending on the absorbency of the substrate: at least 250 g/m² (if necessary, apply in several working steps).

Properties

Form	Liquid
Standard colour	Silver grey
Workability time*	approx. 45 min.
Rainproof after*	approx. 4 h
Can be walked on after*	approx. 12 h
Further coating after*	approx. 12 h

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Application

Preparing the substrate

Substrates must be dry, firm and free from contaminants which may affect adhesion and must be prepared accordingly.

Mineral substrates must be prepared so that an average adhesive tensile strength of > 1.5 N/mm² and a minimum single value of > 1.0 N/mm² is obtained.

The temperature of the material, ambient air and substrate must be at least +5°C and not above +30°C at a relative air humidity of < 80%.

The product KEMCO POX 2K Primer can also be applied outdoors on slightly moist substrates (max. 20% moisture). A continuous water film must not be present on the surface.

Use as a primer

KEMCO POX 2K Primer component B must be mixed into component A using a slow-running mixing device until you achieve a homogeneous and streak-free mixture. Mixing time approx. 2 minutes.

To prevent mixing errors, the mixture should be placed in another container and re-mixed.

For better workability the material can be diluted with 20% water. Then transfer it to a clean container und mix for approx. another 2 minutes.

Use a nylon roller to work the material quickly and generously until all the pores are closed off reliably To prevent the material to react prematurely due to heat build-up in the container, the material should be poured on-to the substrate, distributed roughly and then worked in using the roller.

Use as filling and levelling compound

Add KEMCO FL Special Filler to the finished mixture in a ratio of 1:1.5 or 1:3. To prevent mixing errors, the mixture should be placed in another container and re-mixed.

Pour mixture onto the substrate, distribute it evenly with a notched or a smoothing trowel and use a spiked roller to remove any air bubbles if necessary.

Highly absorbent or porous substrates should first be primed with KEMCO POX 2K Primer .

Work interruption and further coating

In case of interruptions of >4 weeks, the surface has to be sanded or activated with KEMCO LE Flexo Primer and primed once more with KEMCO POX 2K Primer .

Personal protective equipment must be worn.

Clean tools immediately after use with water.

Sufficient ventilation is essential to guarantee full curing. Always adhere to relevant rules and regulations.

For further information on application, please refer to the separate technical data sheets and the application instructions.

GISCODE

RE30

Disposal

Comp. A + B (mixture)	liquid	EAK 08 04 09
Comp. A + B (mixture)	cured	EAK 17 02 03

Important note

Two-component polyurethane, epoxy and methyl methacrylate resins react under heat development. After mixing the components, the product must not remain in the mixing container for longer than the workability time. Non observance may cause heat and smoke development and may, in extreme cases, even result in a fire.

General information

Changes to the colour caused by weather conditions or UV rays do not influence the technical parameters.

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Issued: Vellmar, 2024-03-04

KEMCO 1K Primer

Application area

- For new buildings and repair work
- To produce a bonding coat for KEMCO Decor Stone / Natural Stones in combination with KEMCO NQ 0408 Natural Quartz

Features

- Promotes adhesion
- 1 part (single component)
- Fast evaporating
- Basis: Isocyanate prepolymers, dissolved in organic solvents
- EMI CODE EC1 PLUS

Pack sizes

1 kg and 4 kg

Storage

Store unopened in a cool, frost-free and dry place, see label for use before date.

Consumption

Depending on the absorbency of the substrate: at least 0,15 kg/m².

Properties

Form	Liquid
Colour	transparent yellowish
Workability time*	approx. 20 min
Rainproof after*	approx. 1 h
Can be walked on after*	approx. 1 h
Further coating after*	approx. 1 h

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Application

Preparing the substrate

Substrates must be dry, firm and free from contaminants which may affect adhesion and must be prepared accordingly.

Caution: The product KEMCO 1K Primer is not suitable for every substrate.

During application, the surface temperature must be 3K above the dew point. If the temperature falls below the dew point during application, moisture which can negatively affect adhesion may form on the surface (DIN 4108 - 5 Tab. 1).

Application

Prime in one work step ensuring that all pores are closed off. Distribute using a nylon roller to avoid material build-up, as the substrate will otherwise be damaged.

When used as a bonding coat

Apply the primer until all the pores are closed off and scatter the surface directly with KEMCO NQ 0408 Natural Quartz over the entire layer leaving no gaps (consumption approx. 2 kg/m²).

Further suitable KEMPER SYSTEM products can be applied after approx. 4 hours when the primed surface is dry and tack-free.

Work interruption and further coating

After 1 hour (depending on weather conditions such as wind, humidity and temperature), when the surface of the applied primer is dry and tack-free, further suitable KEMPER SYSTEM products can be applied. This must be completed within the next 48 hours, otherwise separation effects may occur. To avoid this separating effect, we recommend sanding the still fresh CO-ETTRANS Transparent Primer with KEMCO NQ 0408 Natural Quartz (approx. 2 kg/m²). Otherwise, re-priming is required after 48 hours.

PPE

Personal protective equipment must be worn.

We recommend a hand protection and skin protection plan adapted to the workplace. Clean the tools immediately after use with KEMCO MEK Cleaning Agent.

Disposal

Liquid	EAK 08 05 01
cured	EAK 17 02 03

Important note

The safety data sheets, the container labelling and the danger and the safety recommendations on the containers must be complied with during transport, storage and processing; as are the chemical trade association information sheets.

Do not allow to enter waters, waste water or soil.

Not suitable for use in swimming pools!

GISCODE

PU50

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

Only for commercial use.

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COETRANS Transparent Primer

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Transparent primer for ceramic substrates (tiles, glazed tiles, split clinker), mineral substrates and glass in exterior areas.

Colour / Gloss:

- transparent / glossy

Product features:

- ready to use
- light stable
- fast hardening
- water vapour diffusion
- UV- and weather-resistant
- 1-component
- Based on: Polyurethane resin

Package size:

5 l can

Material consumption:

- at least 250 g/m² (depending on the absorbency of the substrate, resp. should be applied in several working steps)

Shelf Life:

Use by: 12 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- after approx. 2 h resilient enough to carefully walk and work on

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Specific gravity:

approx. 0.99 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

EAK 08 05 01

Disposal when cured:

EAK 17 02 03

Substrate:

- The surface must be clean, dry, level, load-bearing, firm and absorbent. Any surface soiling (e.g. oil, grease, dust, loose parts, rubber abrasion, silicone), residues of old coatings, after-treatment films, sintered layers, cement slurries and other less resistant layers must be removed. After cleaning the substrate, vacuum the surface with an industrial vacuum cleaner.
- For mineral substrates, the surface strength (test of peel strength according to DIN EN ISO 7500-1 Supplement 1) must be at least 1.5 N/mm² on average, with the smallest individual value not falling below 1.0 N/mm². The floor unevenness must not exceed the measurement tolerance in building construction according to DIN 18202.
- The moisture content of the substrate must not exceed 5 CM %.
- Local voids in the substrate can be detected by tapping the area. If found, they must be removed.
- Cavities, holes and cracks must be closed, and the profile of broken corners and/or edges must be re-shaped. To do this, a levelling compound or EP plaster are most suitable.
- The recommendation for cleaning ceramic tile, metal or glass substrates is to use KEMCO MEK Cleaning Agent (see corresponding technical information sheet).
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Use a felt roller (e.g. mohair roller) or a solvent-resistant sealing brush, saturated with the material, to work the product into the substrate until all pores are covered and no matt spots are visible any more.
- It is possible to pour the product onto the subsurface and distribute it, moving the roller back and forth. Please note: this process may lead to unintentional "clogging" of the area.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN Flexo Primer

Technical Data Sheet

(Issue: 2024-04-09)

Application areas:

Transparent adhesion promoter for various interior and exterior plastic surfaces with the exception of polyethylene (PE) and polypropylene (PP). Very suitable as adhesion promoter on existing COELAN products based on polyurethane resin and epoxy resin, if these are to be reworked in color or further coated.

Colour / Gloss:

- brownish / translucent

Product features:

- ready to use
- of low viscosity
- low consumption
- 1-component
- Based on: Polyurethane resin

Container size:

1 l container

Material consumption:

- at least 50 ml/m²

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- after approx. 30 min. to max. 6 h reworkable

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Specific gravity:

approx. 1.04 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- The substrate must be clean, dry, firm and free from dust, oil, grease, silicone or other substances that reduce the bond.
- The following is valid when applying further coatings to COELAN products that have already cured:
 - polyurethane resin (PU) = use after 7 d curing time
 - epoxy resin (EP) = use after 24 h curing time

Dilution:

/

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Use cloth to apply a thin layer of the material across the entire surface.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

KEMCO LE Flexo Adhesive Primer

Application area

- Transparent bonding agent for various plastic substrates indoors and outdoors; except for polyethylene (PE) and polypropylene (PP).
- Particularly suitable as a bonding agent on existing polyurethane resin and epoxy resin based COELAN coatings if they are to be further coated or reworked with a transparent coating.

Features

- Lightfast
- Low viscosity
- Transparent
- Low consumption
- 1 part (single component)
- Ready for use
- Resin base: Polyurethane resin

Container size:

1 l container

Storage

Avoid direct sunlight and frost!

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C.

To achieve the best results, it is recommended to store the product at room temperature for approx. 24 hours prior to use.

Opened containers must be sealed air tight and should be used as soon as possible.

See label for use before date.

Material consumption:

at least 50 ml/m²

Properties

Form	Liquid
Colour	Transparent
Cured after *	approx. 60 min.
Recoat after *	approx. 1 h to max. 6 h
Density	approx. 0.96 g/cm ³

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Application

Preparing the substrate

Substrates must be dry, firm and free from contaminants which may affect adhesion and must be prepared accordingly.

The following is valid when applying further coatings to COELAN products that have already cured:

- polyurethane resin (PU) = use after 7 d curing time

- epoxy resin (EP) = use after 24 h curing time

The temperature of the material, ambient air and substrate must be at least +5°C and not above +30°C at a relative air humidity of < 80%.

The substrate temperature must be at least 3K above the dew point.

Application

Use a cloth to apply the material thinly and evenly to the whole area of the substrate

PPE

Personal protective equipment must be worn.

Sufficient ventilation is essential to guarantee full curing. Always adhere to relevant rules and regulations.

For further information on application, please refer to the separate technical data sheets and the application instructions.

Important note

Please refer to the respective safety data sheet for hazard warnings, protective measures, hazardous substance classes and correct disposal!

Disposal

Liquid	EAK 08 05 01
cured	EAK 17 02 03

GISCODE

PU50

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

Only for commercial use.

KEMCO FL Special Filler

Application area

- Filler for coating systems
- As filling compound in combination with KEMCO POX 2K Primer

Features

- Grading curve 0.1 - 0.5 mm
- Kiln-dried

Pack sizes

7.5 kg container

Storage

Cool and dry.

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C.

Consumption

Depending on requirements and field of application.

For further information on application, please refer to the separate technical data sheets and the application instructions.

Disposal

EAK 17 05 04

General information

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sponsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

Issued: Vellmar, 2024-03-04

KEMCO NQ 0408 Natural Quartz

Application area

- For new buildings and repair work
- Depending on the application of the respective COELAN products
- Indoor and outdoor use

Features

- Kiln-dried
- Grading curve that is adapted to the intended purpose and compatible with the system

Pack sizes

25 kg bag

Storage

Cool and dry.

Properties

Form	Granular /solid
------	-----------------

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

CE marking

Component to 4	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

Application

Disposal

EAK 17 05 04

No hazardous waste, disposal as domestic waste.

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

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Issued: Vellmar, 2024-03-04

KEMCO NQ 0712 Natural Quartz

Application area

- For new buildings and repair work
- Depending on the application of the respective COELAN products
- Indoor and outdoor use

Features

- Kiln-dried
- Grading curve that is adapted to the intended purpose and compatible with the system

Pack sizes

25 kg bag

Storage

Cool and dry.

CE marking

Component to 4	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

Application

Disposal

EAK 17 05 04

No hazardous waste, disposal as domestic waste.

General information

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Issued: Vellmar, 2024-03-04

COELASTIC EVO

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

As seamless waterproofing in combination with COELAN Poly Non-Woven-Material for surfaces, training of connections and penetrations on e.g. balconies, terraces and flat roofs. Suitable on almost all substrates (see substrate for details).

Colour / Gloss:

- light grey / matt

Product features:

- ready to use
- flexible
- cracks can be easily bridged
- water vapour diffusion
- UV- and weather-resistant
- root resistant
- European Technical Assessment ETA - 03 | 0059
- fire classification E
- resistant according to DIN EN 13501-5 Class Roof (t1) - conforming with DIN 4102-7 | B2 - resisting flying sparks and radiating heat
- walk able for maintenance purposes
- 1-component
- Based on: Polyurethane resin

Container size:

7 kg bucket

15 kg bucket

Material consumption:

- at least 3.4 kg/m²

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- Rainproof after approx. 60 min
- after approx. 24 h resilient enough to carefully walk on
- after approx. 2 - 3 d normal loads can be applied
- after approx. 3 - 7 d full loads can be applied
- after 3 d resilient enough to work on with polyurethane-systems (PU-systems)
- after 7 d resilient enough to work on with epoxy-systems (EP-systems)

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Application time:

- approx. 30 min

Mixing ration:

- ready to use

Skin forming time:

approx. 30 min.

Specific gravity:

approx. 1.5 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 05 01

Disposal when cured:

EAK 17 02 03

Substrate:

- The surface must be clean, dry, level, load-bearing, firm and absorbent. Any surface soiling (e.g. oil, grease, dust, loose parts, rubber abrasion, silicone), residues of old coatings, after-treatment films, sintered layers, cement slurries and other less resistant layers must be removed. After cleaning the substrate, vacuum the surface with an industrial vacuum cleaner.
- For mineral substrates, the surface strength (test of peel strength according to DIN EN ISO 7500-1 Supplement 1) must be at least 1.5 N/mm² on average, with the smallest individual value not falling below 1.0 N/mm². The floor unevenness must not exceed the measurement tolerance in building construction according to DIN 18202.
- The moisture content of the substrate must not exceed 5 CM %.
- Local voids in the substrate can be detected by tapping the area. If found, they must be removed.
- Please follow the priming instruction:
 - Bituminous sheet: KEMCO 1K Primer
 - split bituminous sheet KEMCO 1K Primer
 - Flexible synthetic sheeting: COELAN Flexo Primer
 - Concrete / screed: COELAN Primer EP Plus or KEMCO 1K Primer
 - Metal: COELAN Primer EP Plus or KEMCO 1K Primer
- When coating a COELAN Coating that has already cured, COELAN Flexo Primer must be used.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Tool cleaning:

KEMCO MEK Cleaning Agent

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Stir material thoroughly before use: For reasons of storage stability, the material in the container is provided with a special protective coating on the surface. This protective layer must be thoroughly stirred in before use.
- Lay out approx. 2/3 of the material in strips, spread out roughly with a lambswool roller and work in COELAN Poly Non-Woven-Material carefully, avoiding air bubbles, folds or creases and ensuring 5 cm overlaps.
- While the coating is still wet, use the remaining 1/3 of the product until the surface is completely saturated.
- Connections to doors and window components must be raised > 15 cm (from the upper edge of the water-bearing level) or must be created with an overlap of at least 5 cm.
- Connections to waterproofing membranes must be made with an overlap of at least 10 cm.
- Layer thicknesses in accordance with rules for roofs with sealant or normative specifications must be observed.
- For use as a sealant, e.g. under subsequent tiling, adequate alkali protection must be provided when using cement-based products (e.g. tile adhesives). For this purpose, at least 7 d old COELASTIC EVO sealant at least 400 g/m² COELAN Primer EP Plus is rolled and scattered with KEMCO NQ 0712 Natural Quartz .

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

Before start you should close every window and stop air-handling system.

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about

COETRANS 1-K

Waterproofing Layer

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Colored coating in the system structure as the first sealing layer under COETRANS spatula-coverings and COETRANS Balcony Coating Coloured.

Colour / Gloss:

- silver grey (approx. RAL 7001)

Product features:

- ready to use
- cracks can be easily bridged
- visco-plastic
- 1-component
- Based on: Polyurethane resin

Package sizes:

7 kg pail
15 kg pail

Consumption:

- at least 0.8 kg/m²
- at least 1.4 kg/m² (in the case of subsequent use of KEMCO Decor Stone / Natural Stones)
- at least 2.2 kg/m² (with COELAN 150 Poly Non-Woven-Material)

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- Rainproof after approx. 60 min
- after approx. 4 h resilient enough to carefully walk and work on

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Skin forming time:

approx. 1 h

Specific gravity:

approx. 1.45 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 05 01

Disposal when cured:

EAK 17 02 03

Substrate:

- Depending on the type and condition of the substrate, the following primers may be used for the pre-treatment of the substrate:
 - COETRANS Transparent Primer
 - KEMCO® POX 2K-Primer
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Stir material carefully and work quickly with a Perlon roller.
- It is possible to pour the product onto the subsurface and distribute it, moving the roller back and forth. Please note: this process may lead to unintentional "cloding" of the area.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN Poly Non-Woven-Material

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Inlay for the production of a standard single-layer waterproofing and coatings in combination with COELASTIC EVO. Due to the easy handling particularly suitable for detail formations and jointing areas. It can also be used with COETRANS systems.

Colour / Gloss:

- white

Product features:

- reliable lamination strength test
- easy to handle
- system-tested safety features
- safe adjustment
- high saturation feature
- Weight per unit area approx. 165 g/m²

Container size:

70 cm x 50 m roll

26.25 cm x 50 m roll

10.5 cm x 50 m roll

Material consumption:

- at least 1.05 m²/m²

Shelf Life:

Store in undamaged protective cover in dry rooms. Avoid kinks!

Mixing ration:

- ready to use

Disposal

Disposal when liquid:

/

Disposal when cured:

EAK 17 02 03

Substrate:

- For further information on substrate pre-treatment and application, please refer to the separate techni-

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Carefully work the fleece into the previous layer, overlapping approx. 5 cm and avoiding any bubbles and wrinkles
- Connections to doors and window components must be raised > 15 cm (from the upper edge of the water-bearing level) or must be created with an overlap of at least 5 cm.
- Connections to waterproofing membranes must be made with an overlap of at least 10 cm.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN 150 Poly Non-Woven-Material

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Insert for making a waterproofing and coatings on balconies and terraces in combination with COELASTIC EVO. Due to the easy handling particularly suitable for detail formations and jointing areas.

Colour / Gloss:

- white

Product features:

- reliable lamination strength test
- easy to handle
- system-tested safety features
- safe adjustment
- high saturation feature
- mass per unit area min. 150 g/m²

Material consumption:

- at least 1,05 kg/m²/m²

Shelf Life:

Store in undamaged protective cover in dry rooms. Avoid kinks!

Disposal

Disposal when liquid:

/

Disposal when cured:

EAK 17 02 03

Substrate:

- See corresponding technical data sheet of the respective coatings.
- Please observe the work instructions for our COELASTIC EVO sealant.

Application Instructions:

- The COELAN 150 Poly Non-Woven-Material must be carefully worked into the undercoat without air bubbles, folds or creases and with 5 cm overlaps.
- Connections to doors and window components must be raised > 15 cm (from the upper edge of the water-bearing level) or must be created with an overlap of at least 5 cm.
- Connections to waterproofing membranes must be made with an overlap of at least 10 cm.

Please observe the work instructions for our COELASTIC EVO sealant.

Important notice

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

KEMCO IC Fleece inner corner and KEMCO OC Fleece outside corner

Application area

- For new buildings and repair work
- Pre-cut segments as additional reinforcement for corners

Features

- System-tested and adapted to the intended purpose
- Excellent adaptability
- Basis: Polyester

Storage

Protect against moisture, store horizontally in a dry place without creases.

Pack sizes

20 pcs in a box

Application

The KEMPREROL waterproofing is applied to the substrate. The KEMCO IC Fleece inner corner or KEMCO OC Fleece outside corner is applied as an additional reinforcement and pressed down with a brush. The KEMPEROL waterproofing is applied to the first coat until the fleece is fully saturated. Then the fleece-reinforced waterproofing is applied to the edge and the surface.

This ensures the required overlap areas of ≥ 50 mm from non-woven fabric to non-woven fabric.

Disposal

Fleece

EAK 04 02 21

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

Only for commercial use.

Our technical data sheets / technical information and our technical application advice only reflect the current state of knowledge in our company and our experience with our products. With each new edition, the previous technical information loses its validity. It is therefore essential that you always have the latest data sheet to hand. The latest version can be downloaded from kemperol.de under Media >

Downloads. When applying and using our products, a detailed, object-related, qualified check is required in each individual case to determine whether the respective product and/or the application technology meets the specific requirements and purposes. We are only liable for the freedom from defects of our products, but only if our respective product has been used and processed in accordance with our processing guidelines in the technical data sheets. The proper and professional processing of our products is therefore the sole responsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

Issued: Vellmar, 2024-03-04

KEMCO RC Fleece Circles

Issued: Vellmar, 2024-03-04

Application area

- For new buildings and repair work
- Pre-cut segments as additional reinforcement for corners

Features

- System-tested and adapted to the intended purpose
- Excellent adaptability
- Basis: Polyester

Storage

Protect against moisture, store horizontally in a dry place without creases.

Pack sizes

Box with 50 pcs

Application

COELASTIC EVO is applied to the substrate. The KEMCO RC Fleece Circles are applied as an additional reinforcement and pressed down with a brush. COELASTIC EVO is applied to the first coat until the fleece is fully saturated. Then the fleece-reinforced waterproofing is applied to the edge and the surface.

Disposal

Fleece

EAK 04 02 21

General information

No substances of other systems may be mixed into the products of the KEMPER SYSTEM.

Our technical data sheets / technical information and our technical application advice only reflect the current state of knowledge in our company and our experience with our products. With each new edition, the previous technical information loses its validity. It is therefore essential that you always have the latest data sheet to hand. The latest version can be downloaded from kemperol.de under Media > Downloads. When applying and using our products, a detailed, object-related, qualified check is required in each individual case to determine whether the respective product and/or the application technology meets the specific requirements and purposes. We are only liable for the freedom from defects of our products, but only if our respective product has been used and processed in accordance with our processing guidelines in the technical data sheets. The proper and professional processing of our products is therefore the sole responsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

KEMCO RS Reinforcement

Application area

- For bridging when butt-jointing the fleece reinforcement
- For creating an even waterproofing surface
- For new buildings and repair work

Features

- Compatible with the system
- Increased tear strength
- Basis: Polyester

Pack sizes

Rolls of 50 m, 15 cm wide

Storage

Protect against moisture, store horizontally in a dry place without creases.

Properties

Colour	white
Weight	approx. 46 g/m ²

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Consumption

Per meter of butt jointed COELAN Fleece 1 m KEMCO RS Reinforcement .

CE marking

Component to 3	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

Application

KEMCO RS Reinforcement is to be centered over the butt joint when laying COELAN Fleece in a butt jointed way.

Disposal

Reinforcement Strips	EAK 04 02 21
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General information

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Issued: Vellmar, 2024-03-04

KEMCO MEK Cleaning Agent

Application area

- To clean working equipment
- To clean substrates
- To degrease metals

Features

- Highly effective
- Highly volatile
- Organic solvent
- System-tested and adapted to the intended purpose

Storage

Cool and dry.

Pack size

2,7 l, 10 l and 27 l metal container

Consumption

depending on the degree of soiling, at least 200 g/m².

Properties

Form	Liquid
------	--------

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Application

Preparing the substrate

Dampen a cloth with KEMCO MEK Cleaning Agent and apply it onto COELAN surfaces or soiled substrates avoiding puddles of material. After cleaning immediately remove all residual KEMCO MEK Cleaning Agent. Let the solvent of the KEMCO MEK Cleaning Agent evaporate sufficiently before you continue coating.

PPE

Personal protective equipment must be worn.

When applying the product in closed rooms, sufficient ventilation is necessary! Caution: explosion hazard!

Important note

KEMCO MEK Cleaning Agent must only be used according to its intended use as a cleaning agent for surfaces and tools.

Caution: may result in dissolving plastic surfaces (acrylic glass etc.)!

The safety data sheets, the container labelling and the danger and the safety recommendations on the containers must be complied with during transport, storage and processing; as are the chemical trade association information sheets.

Do not allow to enter waters, waste water or soil.

Disposal

liquid	EAK 07 07 04
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GISCODE

GF0

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

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Issued: Vellmar, 2024-03-04

COETRANS Balcony Coating Coloured

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Colored coatings for balconies and terraces as a surface protection system with moisture protection and sealing effect. Combined with the Also suitable as a coating for pergolas and outside stairs.

Can also be used as a colored base coat for subsequent color chip scattering.

Colour / Gloss:

- soil orange / silk-gloss
- glow red / silk-gloss
- wine red / silk-gloss
- ice grey/ silk-gloss
- fog grey / silk-gloss
- rock grey / silk-gloss
- ivory beige / silk-gloss
- sahara beige / silk-gloss
- coffee brown / silk-gloss
- shell white / silk-gloss
- ocean green / silk-gloss
- deep-sea black / silk-gloss
- Note: Always supplied as a set with colour paste apart from ice grey and fog grey.

Product features:

- light stable
- cracks can be easily bridged
- water vapour diffusion
- UV- and weather-resistant
- resistant to diluted acid-base solutions of various concentrations as well as aromatic solutions (please request additional information)
- visco-plastic
- 1-component
- Based on: Polyurethane resin

Container size:

6.5 kg bucket

Material consumption:

- at least 1.2 kg/m² (in the case of color coating, to be applied in two working steps)
- at least 600 g/m² (as layer for the subsequent color chip spreading)

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- Rainproof after approx. 2 h
- after approx. 4 h walkable / further coatable
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Skin forming time:

approx. 2 h

Specific gravity:

approx. 1.3 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- Depending on the type and condition of the substrate, the following primers may be used for the pre-treatment of the substrate:
 - COETRANS Transparent Primer
 - KEMCO® POX 2K-Primer
 - When applying a coating to a COELAN Coating that has already cured (>7 d), it is essential to use COELAN Flexo Primer.

- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Dilution:

max. 20 % COELAN Universal Cleaner

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- If necessary, add pigment paste and use a slow running agitator (max 300 RPM), while mixing the material rigorously for at least 2 minutes.
- Use a felt roller (e.g. mohair roller) to rapidly spread the product.
- It is possible to pour the product onto the subsurface and distribute it, moving the roller back and forth. Please note: this process may lead to unintentional "cloding" of the area.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents

and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COETRANS Balcony Coating Transparent

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Transparent coating or end sealing after spreading of various decorative variants (e.g. COELAN Coloured Flakes, KEMCO Colorit quartzes, etc.).

Suitable for glass surfaces as splinter protection (please ask for details).

Colour / Gloss:

- transparent / glossy

Product features:

- ready to use
- light stable
- water vapour diffusion
- UV- and weather-resistant
- highly elastic and tough
- high abrasive resistance
- easy to clean
- resistant to diluted acid-base solutions of various concentrations as well as aromatic solutions (please request additional information)
- 1-component
- Based on: Polyurethane resin

Package sizes:

750 ml tin

5 kg pail

Material consumption:

- at least 1.200 g/m² (in several working steps as transparent coating resp. splinter protection)
- at least 500 g/m² (sealing of decorative variants)
- at least 150 g/m² (adhesive layer)

Shelf Life:

Use by: 12 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- Rainproof after approx. 2 h
- after approx. 4 h walkable / further coatable
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Skin forming time:

approx. 2 h

Specific gravity:

approx. 1.07 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- When applying sealant to a COELAN Coating that has already long since cured (>7 d), it is essential to use KEMCO LE Flexo Adhesive Primer (see corresponding technical information sheet).
- In the case of a transparent coating, it is essential to use COETRANS Transparent Primer (see corresponding technical information sheet).
- As a final seal on colored coatings or various decoration variants (e.g. COELAN Coloured Flakes, KEMCO Colorit quartzes, etc.) no primer is necessary.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Dilution:

max. 20 % COELAN Universal Cleaner

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Stir material carefully and work quickly with a Perlon roller.
- It is possible to pour the product onto the subsurface and distribute it, moving the roller back and forth. Please note: this process may lead to unintentional "clogging" of the area.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot

have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COETRANS Top Coat silk-matt

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Thin final sealant for a silky matt surface finish of the otherwise glossy COETRANS Balcony Coating Transparent and COETRANS Balcony Coating Coloured.

Colour / Gloss:

- transparent / silk-matt

Product features:

- ready to use
- light stable
- cracks can be easily bridged
- water vapour diffusion
- UV- and weather-resistant
- resistant to diluted acid-base solutions of various concentrations as well as aromatic solutions (please request additional information)
- visco-plastic
- 1-component
- Based on: Polyurethane resin

Package size:

2.5 kg pail

Material consumption:

- at least 250 g/m²

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- Rainproof after approx. 60 min
- after approx. 2 h resilient enough to carefully walk on
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Skin forming time:

approx. 1 h

Specific gravity:

approx. 1.02 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

Disposal when cured:

EAK 17 02 03

Substrate:

- When applying sealant to a COELAN Coating that has already long since cured (>7 d), it is essential to use KEMCO LE Flexo Adhesive Primer (see corresponding technical information sheet).
- When used as a sealant on COETRANS Balcony Coating Transparent or COETRANS Balcony Coating Coloured no primer is required.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Dilution:

max. 20 % COELAN Universal Cleaner

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Stir material carefully and work quickly with a Perlon roller.
- It is possible to pour the product onto the subsurface and distribute it, moving the roller back and forth. Please note: this process may lead to unintentional "cloding" of the area.
- Colouring with COELAN Colour Paste or similar systems is not possible.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COEPLAN 2-K Poured Coating PLUS

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Colored coating for decorative and industrial floors in interior areas. Ideal coating for mastic asphalt. Can be used as unfilled, filled or coating with slip classification.

Colour / Gloss:

- soil orange / silk-gloss
- glow red / silk-gloss
- wine red / silk-gloss
- ice grey/ silk-gloss
- fog grey / silk-gloss
- rock grey / silk-gloss
- ivory beige / silk-gloss
- sahara beige / silk-gloss
- coffee brown / silk-gloss
- shell white / silk-gloss
- ocean green / silk-gloss
- deep-sea black / silk-gloss
- Note: Always supplied as a set with colour paste apart from ice grey and fog grey.

Product features:

- low solvent
- abrasion resistant
- good leveling property
- resistant to chemicals (inquire about details)
- high mechanical load capacity
- can be filled with KEMCO FL Special Filler
- 2-component
- Based on: Polyurethane resin

Package size:

8 kg pail (Comp. A)

2 kg pail (Comp. B)

Consumption:

- at least 1 kg/m² (roller coating)
- at least 1.14 kg + 860 g KEMCO FL Special Filler per m²/mm (filled coating)

Shelf Life:

Use by: 12 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best re-

sults, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- after approx. 12 h resilient enough to carefully walk and work on
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Application time:

- approx. 30 min

Mixing ration:

- 4:1 (proportion of weight comp. A : comp. B)

Skin forming time:

approx. 30 min.

Specific gravity:

approx. 1.40 g/cm³ (mixed density)

GISCODE:

PU40

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- Prime the substrate with COELAN Primer EP Plus (see corresponding technical information sheet) until all pores are closed.
- Do not prime poured asphalt.

Tool cleaning:

COELAN Universal Cleaner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Carefully mix up component A, add pigment paste, if necessary and use a slow-turning agitator (max. 300 RPM). Mix rigorously for at least 2 minutes.
- Use the specified mixing ration and stir component B into component A, using a slow-turning agitator (max. 300 RPM). Mix rigorously for at least 2 minutes.
- Subsequently, pour into a clean container and mix again for approx. 2 minutes.
- Only mix as much material as can be processed within the work life of the product.
- Note: In order to be able to guarantee robust, single-colour, decorative surfaces with long-term scratch resistance, the recommendation is to apply a thin, transparent final sealant (e.g. COEPLAN 2-K Super Sealant).

Preparation as roll-on coating:

- For the mixed material as mentioned above, use a felt roller (e.g. mohair roller) to work with.
- In order to avoid a premature chemical reaction (caused by the trapped heat in the pail), it is recommended to pour the product onto the subsurface and distribute it, moving the roller back and forth.
- If coloured flakes are to be added to a uni-coloured coating, a transparent adhesive must be applied to the hardened coat and the coloured flakes must be strewn into the liquid adhesive. After the adhesive has dried, the coloured flakes must be sealed with a transparent sealant.

Preparation as coating with quartz sand:

- Add KEMCO FL Special Filler to the material mixed as described above and mix thoroughly for at least 2 min.
- Pour the mixture onto the subsurface and use a square notch trowel or a coating knife to spread the mixture to the recommended thickness of 2 - 3 mm (8 mm notched trowel).
- After approx. 10 minutes move a spiked roller in a double pass fashion twice across the coating in order to aerate the material.
- Spiked footwear can also be used on the freshly poured coating before a skin has been formed.
- If coloured flakes are to be added to a uni-coloured coating, a transparent adhesive must be applied to the hardened coat and the coloured flakes must be strewn into the liquid adhesive. After the adhesive

has dried, the coloured flakes must be sealed with a transparent sealant.

Processing a coating with slip classification:

- Roll a layer of adhesive with COEPLAN 2-K Poured Coating PLUS (approx. 200 g/m²) onto the coating suitable for foot traffic.
- In the fresh adhesive layer KEMCO Colorit quartzes in excess is spread (approx. 4 kg/m²).
- After drying, the excess and unbound KEMCO Colorit quartzes is swept off or eliminated by vacuuming.
- To achieve an R12 anti-slip surface: Apply COEPLAN 2-K Poured Coating PLUS to the surface as a final sealant (approx. 300 g/m²).

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

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COEPLAN 2-K Super Sealant glossy

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Transparent coating or end sealing after spreading of various decorative variants (e.g. COELAN Coloured Flakes, KEMCO Colorit quartzes, etc.).

Transparent coating for concrete, screed, plaster and other mineral and ceramic substrates.

Colour / Gloss:

- transparent / glossy

Product features:

- light stable
- UV- and weather-resistant
- high abrasive resistance
- resistant to chemicals (inquire about details)
- excellent adhesive properties when used on ceramic or mineral substrates
- can be coloured with COELAN Colour Paste
- 2-component
- Based on: Polyurethane resin

Package size:

5 kg pail (component A)

2 kg pail (component B)

Material consumption:

- at least 1 - 2 x 250 g/m² (depending on the case of application)

Shelf Life:

Use by: 12 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- after approx. 12 h resilient enough to carefully walk on
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Application time:

- approx. 45 min

Mixing ration:

- 2,5:1 (proportion of weight comp. A : comp. B)

Skin forming time:

approx. 30 min.

Specific gravity:

approx. 1.06 g/cm³ (mixed density)

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- When applying sealant to a COELAN Coating that has already long since cured (>7 d), it is essential to use KEMCO LE Flexo Adhesive Primer (see corresponding technical information sheet).
- As a final seal on colored coatings or various decoration variants (e.g. COELAN Coloured Flakes, KEMCO Colorit quartzes, etc.) no primer is necessary.

Tool cleaning:

KEMCO MEK Cleaning Agent

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Stir Comp. A and add comp. B in the proper mixing ration to comp. A.
- Using a slow running agitator (max. 300 RPM), mix the compounds rigorously for at least 2 min.. Subsequently, pour into a clean container and mix again for at least 2 minutes.
- Use a felt roller (e.g. mohair roller) to rapidly spread the product.
- It is possible to pour the product onto the subsurface and distribute it, moving the roller back and forth. Please note: this process may lead to unintentional "cloding" of the area.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

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or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN Colour Paste

Technical Data Sheet

(Issue: 2024-04-09)

Application areas:

Additive for coloring transparent, glossy COELAN polyurethane liquid plastics.

Colour / Gloss:

- creme white (approx. RAL 1013)
- pure orange (approx. RAL 2004)
- bright red (approx. RAL 3000)
- silver grey (approx. RAL 7001)
- mahogany brown (approx. RAL 8016)
- black (approx. RAL 9005)
- brilliant white (approx. RAL 9010)

Product features:

- system-tested safety features
- high viscosity liquid
- available in various colours
- Based on polyol

Package size:

37 ml tube

Material consumption:

- approx. 10% added amount

Shelf Life:

Use by: 12 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

Please refer to the technical data sheet of the respective synthetic resin coating.

Mixing ration:

- ready to use

Specific gravity:

approx. 1.08 - 1.58 g/cm³ (depending on color shade)

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- See corresponding technical data sheet of the respective coatings.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Add the appropriate amount of COELAN Colour Paste to the polyurethane liquid polymer and mix in with a mixing rod or a slow mixer (max. 300 rpm) to create a homogeneous mixture free from streaks.
- Please note that the various colours offer varying levels of opacity - several layers may be necessary to achieve the desired level of opacity.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be con-

sidered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN Coloured Flakes

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Can be used as decorative spreading in various coating systems if a transparent final coating or final sealing is created.

Colour / Gloss:

- 14 different color combinations available (see COELAN color fan or COELAN color chip overview)

Product features:

- ready to use
- light stable
- available in 3 Sizes (fine = approx. 1 mm average flake size, medium = approx. 3 mm average flake size, coarse = approx. 6 mm average flake size)
- low consumption

Container size:

2 kg bucket

Material consumption:

- at least 700 g/m² (full-surface color chip spreading) of which remain effectively glued to the surface:
 - fine: at least 350 g/m²
 - medium: at least 400 g/m²
 - coarse: at least 300 g/m²
- at least 100 g/m² (partial-surface color chip spreading)

Shelf Life:

Store in closed original containers in dry rooms.

Mixing ration:

- ready to use

Specific gravity:

approx. 2.3 g/cm³

Disposal

Disposal when liquid:

/

Disposal when cured:

EAK 17 02 03

Substrate:

- Depending on the application, COELAN Coloured Flakes must be added to either a wet coating or a wet adhesive layer.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- In order to obtain a uniform colour flake mixture, rotate the container several times (this will prevent variations in colour).
- A spray gun (e.g. a Chiron device) is ideal for strewing the coloured flakes onto the surface. By using a circular motion, the coloured flakes can be evenly distributed onto the wet adhesive coating.
- In order to distribute coloured flakes onto small areas, the flakes can be scattered manually or by using perforated container.
- After a drying period of approx. 12 hours, excessive and loose coloured flakes can simply be brushed away or vacuumed off.
- Use sandpaper (80 grit) to roughly rework the surface and to deburr any remaining protruding coloured flakes. Brush off or vacuum surface again.
- Subsequently, apply final sealant or coating (please refer the Technical Data Sheets of the particular coating or sealant).

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

KEMCO Coloured quartz

Application area

- Combined with the COETRANS 1-K Binder or KEMCO QB1 Binder can be used as decorative floor coverings in the outdoor and indoor areas
- Can be used as decorative spreading in various coating systems if a transparent final coating or final sealing is created.

Features

- Grain-size distribution 0.7 - 1.2 mm
- round grained

Pack size:

25 kg bag

Storage

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C.

Material consumption:

- at least 4 kg/m² (spreading in)
- at least 7 kg/m² (coverings applied with the spatula)

Colors

- yellow / white / black
- red / white / black
- gray / white / black
- umbra
- gray / white / red
- graphite / oxide / ivory
- ocher
- graphite
- agate
- papyrus

Properties

Density	approx. g/cm ³
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* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Application

Preparing the substrate

During application, the surface temperature must be 3K above the dew point. If the temperature falls below the dew point during application, moisture which can negatively affect adhesion may form on the surface (DIN 4108 - 5 Tab. 1).

Use only for substrate temperatures and ambient temperatures of at least 10 °C to max. 30 °C and <80% rel. humidity.

For the KEMCO Colorit quartz filling in outdoor areas, an adhesive layer made of COETRANS 1-K Binder must be present.

For the KEMCO Colorit quartz filling in indoor areas, **no** adhesive layer made of KEMCO QB1 Binder must be present.

A KEMCO color quartz spreading is carried out in an adhesive layer of the corresponding coating.

More information on substrate preparation and processing can be found in the separate technical data sheets and the corresponding processing instructions.

To avoid colour variations or shading over the surface, material from different bags must be mixed in advance.

Important note

Please refer to the respective safety data sheet for hazard warnings, protective measures, hazardous substance classes and correct disposal!

Disposal

cured

EAK 17 02 03

General information

Our technical data sheets / technical information and our technical application advice only reflect the current state of knowledge in our company and our experience with our products. With each new edition, the previous technical information loses its validity. It is therefore essential that you always have the latest data sheet to hand. The latest version can be downloaded from kemperol.de under Media > Downloads. When applying and using our products, a detailed, object-related, qualified check is required in each individual case to determine whether the respective product and/or the application technology meets the specific requirements and purposes. We are only liable for the freedom from defects of our products, but only if our respective product has been used and processed in accordance with our processing guidelines in the technical data sheets. The proper and professional processing of our products is therefore the sole responsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

Issued: Vellmar, 2024-03-04

KEMCO Decor Stone / Natural Stones

Application area

- For the decorative design/finish of the different surfacing systems for balconies, terraces, walls and floors
- For new buildings and repair work

Features

- Mechanically rounded, natural appearance
- Washed and dried
- Grading curve 2 - 4 mm

Pack sizes

25 kg bag

Storage

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C.

Allow the material to stabilize to between +18°C and +20°C for at least 24 hours prior to use.

Properties

Weight	approx. 2.50 g/cm ³ , bulk weight 1.7 t/m ³
--------	----------------------------------------------------------------------

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Colors

- contrast black
- light gray
- dark beige
- contrast brown
- copper / beige
- light brown / terra
- anthracite
- chestnut

other colors on request.

Application

To avoid colour variations or shading over the surface, material from different bags must be mixed in advance.

Important note

Please refer to the respective safety data sheet for hazard warnings, protective measures, hazardous substance classes and correct disposal!

Disposal

EAK 17 05 04

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

Only for commercial use.

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Issued: Vellmar, 2024-03-04

KEMCO QB1 Binder

Application area

- Covering for interior areas, covered walkways, balconies and terraces
- For new buildings and repair work
- In order to create decorative floor coverings of KEMCO Decor Stone / Natural Stones and KEMCO Colorit quartzes
- Indoor and outdoor use
- On COELAN waterproofing and coating products

Features

- Solvent-free
- Odourless
- Lightfast
- AgBB-compliant
- Air-humidity cured
- Weatherproof
- Resin base: Polyurethane resin

Pack size

1.75 kg package

5.25 kg package

Storage

Store unopened in a cool, frost-free and dry place, see label for use before date.

Consumption

7 mass% = 1.75 kg package for 25 kg KEMCO Decor Stone / Natural Stones

Ready-to-use mixture: 13 kg/m² KEMCO Decor Stone / Natural Stones for a layer thickness of 6 mm

10 weight % = 2.50 kg for 25 kg

Ready-to-use mixture: 7 kg/m² for 3 mm layer thickness:

Properties

Form	Liquid
Colour	transparent yellowish
Workability time*	approx. 45 min
Rainproof after*	approx. 2 h
Can be walked on after*	approx. 72 h
Cured after *	approx. 3 d
Layer thickness of the finished covering (fleece laid butt jointed)	approx. 6 mm

Layer thickness of the finished covering with Colour Quartz approx. 3mm

Fire exposure from outside	B _{fl} **, ***
Non-slip class	R9 ***

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.
 ** Classification according to DIN EN 13501-1
 2006: DIN 4102-14 - Resistance to flying sparks and radiant heat.
 *** Checked with KEMCO Decor Stone / Natural Stones

Application

Preparing the substrate

Substrates like concrete, screed or COELAN waterproofing and coating products must be level, dry, firm and free of from any substances which may hinder adhesion. Surfaces must be prepared and primed in line with the manufacturer's guidelines.

The still wet KEMCO POX 2K Primer or COELAN Primer EP Plus is scattered with approx. 300 g/m² of KEMCO NQ 0408 Natural Quartz as a bonding coat.

In the still fresh COETRANS 1-K Waterproofing Layer at least 100 g/m² KEMCO NQ 0408 Natural Quartz as a bonding layer is spread.

Coating requirement

In case of temperatures between +10 ° C and +30 ° C, acclimatize the material for 24h before use. When executed, the surface temperature must be 3 K above the dew point. If the dew point is undershot, a moisture film, which has a separating effect, can form on the surface to be processed (see Technical Information TI 16).

Optimal processing temperature at > + 10 ° C (air temperature).

High air humidity (>80%) can affect the surface structure.

Mixing

Processing with KEMCO Decor Stone / Natural Stones and KEMCO Colorit quartzes: After opening the container, the binding agent must be thoroughly stirred with a stirring stick.

The KEMCO QB1 Binder should be mixed thoroughly with a slow-speed pugmill mixer in the KEMCO Decor Stone / Natural Stones / KEMCO Colorit quartzes mixed until the binding agent and stones resp. color quartz are mixed homogeneously. Mixing time 5 minutes, must be processed within 40 minutes.

To avoid foaming, empty the mixing bucket immediately after the mixing process without leaving any residues. Avoid material accumulation.

Application

Divide larger areas into bays according to the German "Tile-Laying Guidelines". Expansion joint profile rails are used for this subdivision. Complete each bay in one operation. Spread the prepared mixture evenly over the substrate with a straight-edge, smooth the surface and compact it lightly with a smoothing trowel. Afterwards, smooth the surface evenly again with the smoothing trowel.

Personal protective equipment must be worn.

We recommend a hand protection and skin protection plan adapted to the workplace. Clean the tools immediately after use with KEMCO MEK Cleaning Agent.

sponsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

Issued: Vellmar, 2024-04-29

Important note

On surfaces in an exposed position, e. g. in a forest location, or when ponding occurs, with KEMCO Decor Stone / Natural Stones algae growth, soiling or the like are possible.

Wear surfaces are subjected to mechanical stress and therefore require periodic inspection/maintenance. Depending on the degree of wear, a rework may be required.

Surface stickiness may persist for up to three days depending on outside temperature and air humidity.

Disposal

Liquid	EAK 08 05 01
cured	EAK 17 02 03

GISCODE

PU40

General information

The times given above are reduced with higher and increased with lower ambient and substrate temperatures as well as with the relative humidity. KEMPER SYSTEM products must not be mixed with other manufacturers' products.

Only for commercial use.

Our technical data sheets / technical information and our technical application advice only reflect the current state of knowledge in our company and our experience with our products. With each new edition, the previous technical information loses its validity. It is therefore essential that you always have the latest data sheet to hand. The latest version can be downloaded from kemperol.de under Media > Downloads. When applying and using our products, a detailed, object-related, qualified check is required in each individual case to determine whether the respective product and/or the application technology meets the specific requirements and purposes. We are only liable for the freedom from defects of our products, but only if our respective product has been used and processed in accordance with our processing guidelines in the technical data sheets. The proper and professional processing of our products is therefore the sole re-

KEMCO TX Thixotropic Additive

Application area

- As a thixotropic agent for the surfacing system KEMCO Decor Stone / Natural Stones and for vertical application.

Features

- Reduces self-levelling and prevents running on ramps and inclined surfaces

Pack sizes

4 * 150 g-bags

Storage

Cool and dry.

Consumption

The consumption depends on:

- Degree of slope/gradient
- Condition of the substrate
- Temperature

Properties

Form	Powder
<p>* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.</p>	

Curing

For KEMCO Decor Stone / Natural Stones

pack	Quantity thixotropic agent
1,75 kg KEMCO QB1 Binder	8 mass%

Application

Important note

The safety data sheets, the container labelling and the danger and the safety recommendations on the containers must be complied with during transport, storage and processing; as are the chemical trade association information sheets.

Do not allow to enter waters, waste water or soil.

Disposal

EAK 17 05 04

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Issued: Vellmar, 2024-03-04

KEMCO GUM Jointing compound

Application area

- For connection and construction joints (up to 20 mm) on wood, plastic, mineral substrates or glass indoors and outdoors

Features

- UV- and weather-resistant
- Ready for use
- Strong adhesive
- Elastic
- Suitable to receive further waterproofing and surfacing coats
- Suitable to receive paint and coloured surfacing coats
- Resin base: Polyurethane resin

Pack sizes

310 ml cartridges

12 cartridges / carton

Storage

Avoid direct sunlight and frost!

See label for use before date.

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C.

Allow the material to stabilize to between +18°C and +20°C for at least 24 hours prior to use.

See label for use before date.

Consumption

min. 310 ml / 3 m (joint width 1x1 cm)

Properties

Colour	Grey
Cured after *	approx. 1 d

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Application

Substrates must be dry, firm and free from contaminants which may affect adhesion and must be prepared accordingly.

Material, ambient air and substrate temperature must be at least +5°C to max. +30°C with a relative humidity < 80%. When executed, the surface temperature must be 3 K above the dew point.

For porous substrates, such as concrete, screed, aerated concrete blocks, wood-based materials, etc., before processing the KEMCO GUM Jointing compound with KEMCO 1K Primer, KEMCO POX 2K Primer or COELAN Primer EP Plus they should be primed.

Remove the aluminum cover. Pierce the protective membrane in the upper threaded part over its entire surface. Now unscrew the plastic nozzle and cut off diagonally, depending on the desired application thickness. Use the cartridge in the hand gun and in the compressed air gun (2-4 bar). Before starting the work, it is essential to check the joints to be filled, for their suitability and eliminate any possible causes of deficiencies. Trapped moisture can cause blistering and detaching. KEMCO GUM Jointing compound may only have a 2-flank adhesion during processing. Avoid a three-point adhesion by filling the joint with backfill material (z.B. PE round rubber cord).

Personal protective equipment must be worn.

GISCODE

PU40

Disposal

Liquid	EAK 08 05 01
cured	EAK 17 02 03

General information

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Our technical data sheets / technical information and our technical

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COELAN Gleitol

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

To improve the sliding capability of the smoothing trowel when processing the spatula-coverings with KEMCO Colorit quartzes or KEMCO Decor Stone / Natural Stones.

Colour / Gloss:

- transparent

Product features:

- ready to use
- exceptional lubricating effect

Package size:

1 l bottle

Material consumption:

- at least 500 ml/m²

Shelf Life:

Use by: 24 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Mixing ration:

- ready to use

Specific gravity:

approx. 0.80 g/cm³

GISCODE:

M-VM01

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

/

Substrate:

- Material can be used for smoothing trowel.

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- Finishing trowels cleaned with COELAN Universal Cleaner are wetted with COELAN Gleitol at frequent intervals.
- Please note that COELAN Gleitol should not be allowed to come into contact with the substrate to be coated.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN Universal Cleaner

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Cleaner for tools and for processing purposes.

Application areas:

Can also be used as a thinner for some of our polyurethane-based liquid plastics (please refer to separate technical data sheets).

Colour / Gloss:

- colourless

Product features:

- ready to use
- fast hardening
- does not contain water
- highly fluid
- Based on a mixture of organic solvents

Container size:

1 l container

5 l jug

Material consumption:

- as a cleaner as required
- as thinner please observe the corresponding technical data sheets

Shelf Life:

Use by: 24 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Mixing ration:

- ready to use

Specific gravity:

approx. 0.87 g/cm³

GISCODE:

M-VM04

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

/

Application Instructions:

- Excess polyurethane or epoxy resin can be cleaned off tools with COELAN Universal Cleaner provided the resin has not yet cured.

Important notice

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

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COELAN Boat Primer

Technical Data Sheet

(Issue: 2024-04-09)

Application areas:

Primer for hardwoods and softwoods in a system with subsequent transparent COELAN boat coating. Please note the different pigmentations for different types of wood.

Colour / Gloss:

- yellowish, translucent (for teak & light-coloured woods)
- reddish, translucent (for mahogany & reddish woods)

Product features:

- ready to use
- fast hardening
- light-resistant pigmentation (in combination with COELAN Coating)
- coloured glazing
- drip inhibited
- very good absorbency and bonding capacity
- contains neither fungicides nor biocides
- 1-component
- Based on: Polyurethane resin

Package sizes

250 ml tin
1 l container

Material consumption:

- at least 250 ml/m² (depending on the absorbency of the substrate, resp. should be applied in several working steps)

Shelf Life:

Use by: 12 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- workable after approx. 2 - 3 h

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Specific gravity:

approx. 0.93 g/cm³

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- The substrate must be clean, dry, firm and free from dust, oil, grease, silicone or other substances that reduce the bond.
- In order to increase the absorbency, the wooden surface should be sanded slightly (grain 80).
- End-grain wood must be pretreated with COELAN Primer EP Plus.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Tool cleaning:

COELAN Thinner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- The COELAN Boat Primer must be shaken vigorously before use until the mixing balls contained in it are audible.
- Apply the primer intensively using a foam roller or a brush (ring brush or flat brush) to ensure deep priming and good pore filling.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

Based on our experience and to the best of our knowledge, this technical data is up to date and all information is current. As there might be operating conditions of which we have no knowledge and cannot have any knowledge, this data sheet shall be considered for information only and without responsibility. For the benefit of technical advances and the outcome of such advances, we reserve the right to make changes to the data without any prior notification. With the issuance of this publication, all prior technical information shall be considered null and void. When you contact us, you have the option to take advantage of our technical service consultants to find out about the various applications. Please be advised that all agreements and/or confirmations must be made in writing. Please ensure to request a written confirmation after receiving a verbal statement. For the rest, our terms and payment conditions apply.

COELAN Boat Coating silk

Technical Data Sheet

(Issue: 2023-03-14)

Application areas:

Transparent silk-matt final coating on COELAN Boat Coating glossy (see corresponding technical information sheet).

Colour / Gloss:

- transparent / silk-matt

Product features:

- ready to use
- light stable
- cracks can be easily bridged
- UV- and weather-resistant
- highly elastic and tough
- high abrasive resistance
- easy to clean
- 1-component
- Based on: Polyurethane resin

Container size:

750 ml can

Material consumption:

- at least 300 ml/m²

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- after approx. 6 h resilient enough to carefully walk and work on
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Skin forming time:

approx. 3 h

Specific gravity:

approx. 1.1 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- The substrate must be coated with COELAN Boat Coating glossy and, if necessary, activated with COELAN Flexo Primer LE for boat coatings(see corresponding technical information sheets).
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Dilution:

max. 30 % COELAN Thinner

Tool cleaning:

COELAN Thinner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- The coating should be applied evenly in a sufficiently thick coat using a foam roller or brush.
- Colouring with COELAN Colour Paste or similar systems is not possible.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

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COELAN Boat Coating glossy

Technical Data Sheet

(Issue: 2023-03-14)

Application areas:

Transparent boat coating for the refurbishment of wood, metal and plastic substrates on boat decks and any other surfaces in or on a boat above the waterline.

Colour / Gloss:

- transparent / glossy

Product features:

- ready to use
- light stable
- cracks can be easily bridged
- UV- and weather-resistant
- highly elastic and tough
- high abrasive resistance
- easy to clean
- 1-component
- Based on: Polyurethane resin

Container size:

750 ml can

3 l bucket

Material consumption:

- at least 1 l / m² (to be applied in several layers)

Shelf Life:

Use by: 9 month

Store in closed original containers in dry rooms at temperatures between +5°C and +25°C. Direct sunlight and frost should be avoided! To achieve the best results, it is recommended to store the material at room temperature for approx. 24 hours prior to use. Opened containers should be closed air tight and used as soon as possible.

Curing:

- after approx. 6 h resilient enough to carefully walk and work on
- after approx. 2 d normal loads can be applied
- after approx. 7 d full loads can be applied

Measured at +23°C and 50 % rel. humidity. Lower temperatures and lower humidity will extend the curing time, while higher temperatures and higher humidity will accelerate the curing time.

Mixing ration:

- ready to use

Skin forming time:

approx. 3 h

Specific gravity:

approx. 1.07 g/cm³

GISCODE:

PU50

Disposal

Disposal when liquid:

EAK 08 04 09

Disposal when cured:

EAK 17 02 03

Substrate:

- Depending on the type of substrate, the substrate must be pretreated with COELAN Boat Primer (see corresponding technical information sheet).
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Dilution:

max. 30 % COELAN Thinner

Tool cleaning:

COELAN Thinner

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- The coating should be applied evenly in several, sufficiently thick coats using a foam roller or brush.
- To prevent a coating from sagging on vertical surfaces, the material must be thinned by 10 to 30% with COELAN Thinner.
- Colouring the material with COELAN Colour Paste (see corresponding technical information sheet) enables various opaque colours to be achieved. A mixing rod is used to mix the COELAN Colour Paste carefully into the coating, ensuring all air bubbles and streaks are eliminated to create a homogeneous product. 1 tube COELAN Colour Paste = 375 ml COELAN Boat Coating

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

Always wear personal protective equipment during application.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

From a physiological point, the properly prepared coating of this liquid seal is totally harmless in its hardened condition.

Hazard notes, protective measures, hazardous material classes and disposal can be found in the safety data sheet of this product.

In order to preserve the coating for a long time, regular cleaning is strongly recommended. Generally, this can be done by simply wiping the surface with a damp cloth or using a neutral cleaning agent. Depending on the level of soiling, wax-based protective dispersions may also be necessary for initial treatment and maintenance cleaning. Cleaning agents containing solvents and chloride are unsuitable. For further information, please refer to the cleaning instructions for COELAN liquid plastics.

Please be advised that some media (e.g. rust, copper, petals, red wine, etc.) contain pigments or antioxidants (e.g. rubber wheels) that may cause permanent discolouration; however, they do not impair the protective function of the coating.

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COELAN Anti-Slip

Technical Data Sheet

(Issue: 2024-04-29)

Application areas:

Glass powder for full and partial surface scattering of various COELAN coating systems to increase slip resistance.

Colour / Gloss:

- transparent

Product features:

- Glass powder 105 - 210 µ

Package size

0,3 kg tin

Material consumption:

- According to requirements

Shelf Life:

Store in closed original containers in dry rooms.

Disposal

Disposal when liquid:

/

Disposal when cured:

EAK 17 02 03

Substrate:

- COELAN Anti-Slip can be applied to existing COELAN Coating systems using a coloured or transparent layer of adhesive.
- For further information on substrate pre-treatment and application, please refer to the separate technical data sheets and the application instructions.

Application temperature:

Material, atmospheric and surface temperature: at least +5°C to max. +30°C.

Relative humidity: < 80 %

The substrate temperature must be at least 3 K above dew-point temperature.

Application Instructions:

- The existing COELAN If necessary, activate the coating with KEMCO LE Flexo Adhesive Primer (see corresponding technical data sheet).
- Apply transparent or colour adhesive layer (approx. consumption 250 g/m²).
- Full or partial coverage with COELAN Anti-Slip.

During and after the application, please ensure even and continuous ventilation in order to guarantee a uniform drying process.

For additional information, please refer to the system product's respective Technical Data Sheets and work instructions.

Important notice

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