DEKO
DESIGN SYSTEMS

Productinformation

Deko Prime

Silk-matte, low-emission, pigmented 2-component epoxy resin emulsion primer

Verpackung

Articlenumber	Packaging	Content in kg (sm) black/grey	Content in kg (sm) white	Quantity per pallet
	Bucket-bottle combination	1,2 kg (5m²)	-	upon request
	Bucket-bottle combination	2,4 kg (10m²)	2,4 kg (5m²)	upon request
	Bucket-bottle combination	-	4,8 kg (10m²)	upon request
	Bucketcombination	10 kg (40m²)	10 kg (20m²)	12

Productfeatures

Mixture ratio by weight parts	A : B = 1 : 5 (**Example: A 40 g : B 200 g**)
Mixture ratio by volume parts	A : B = 1 : 4
Workingtime	15 °C : 60 Min. 20 °C : 25 - 35 Min. 30 °C : 20 - 25 Min.
Processing temperature	Minimum 15 °C - Maximum 30 °C (room and surface temperature
Curing time (walkability)	15 °C : 24 - 36 hrs. 20 °C : 18 - 24 hrs 30 °C : 14 - 18 hrs.
Hardening	2 - 3 days until mechanical usability at 20°C 7 days until chemical usability at 20°C
Overcoatability	After 24 hours, but no later than 48 hours
Usage	ca. 240 g/m²/ coat
Layers	2 coats are required for the color white. For ideal results, 2 coats are also recommended for the colors black and grey
Colours	Deko Design Systems - Standard Colors

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	White approx. RAL 9010, Black approx. RAL 9005, Grey approx. RAL 7040, Packaging units: 1.20 kg up to 5 m²/packaging unit, 2.40 kg up to 10 m²/packaging unit, 10 kg up to 40 m²/packaging unit for the colors black and grey Custom colors starting from 5 kg in RAL colors, other colors available upon request! Please note possible price changes
Durability	Durability 12 month (sealed) **Protect the goods from frost!**

Product description

Deko Prime is a water-emulsified, low-emission 2-component epoxy resin primer, available in the colors white, black, and grey. It can be produced in custom colors (standard RAL chart) with a minimum quantity of 10 kg.

The product has been tested according to the AgBB scheme and is approved for use in occupied spaces. Deko Prime is versatile and exhibits good adhesion on substrates such as concrete, cement screed, magnesia screed, and cast asphalt. It can also be used for refurbishing old substrates/EP coatings after proper preparation.

For magnesia screeds, a diffusion-tight structure or design system should not be applied after Deko Prime! Any potential structure should be planned and determined early on.

Deko Prime can be easily applied with a velour roller and, with two coats, provides a very well-covering, durable base for subsequent system coatings.

It is easy and environmentally friendly to apply. **Deko Prime** cures through drying and chemical cross-linking into a tough, durable film that is largely resistant to abrasion and physiologically safe.

The water vapor diffusion capability also allows for the sealing of cementitious substrates that have not yet reached equilibrium moisture content. However, the system installation still requires adequate testing of the residual moisture or household moisture of the substrate, as the subsequent system build-up is typically not diffusion-open

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Note: During epoxy reactions during curing, possible color changes may occur depending on temperature, humidity, and substrate. Additional or adjacent areas should each be carried out with the same preparation to exclude color differences in the individually completed areas.

Features

- Low-emission product
- Low odor
- Total Solid GISCODE
- Environment friendly
- Water vapor diffusion capability
- very high adhesion
- easy application
- even surface
- silke-matt
- high coverage

Technical data

Viscosity component A+B	600 - 700	mPas	DIN EN ISO 3219 (23°C)
Density-component A + B	1,25	kg/l	DIN EN ISO 2811-2 (20°C)
Abrasion	< 70	mg	ASTM D4060 (CS10/1000)
Flashpoint	nicht brennbar	-	DIN 51755
Sheenlevel	15 - 25 bei 85°	-	DIN 67530
Diffusion resistance factor	3100	-	DIN EN ISO 12572
Diffusionequivalent air layer thickness	(0,5 mm) 1,6	m	DIN EN ISO 7783-2

Values determined in tests are average values. Deviations from product specifications are possible
Other coating products not released for use should be tested for adhesion and functionality. By sanding or scuffing with a red/black pad of the reacted primer Deko Prime, adhesion may be improved if necessary.

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Tools & Equipment

- Protective cover for mixing area as well as adhesive tapes
- Stirrer with adjustable stirring speed RPM (if necessary, replacement device)
- Stirrer of appropriate size
- Digital scale in 1 gram increments, ideally 0.001 kg to 30.000 kg
- Tool for cutting shrinkage joints in screed and similar
- Clean bucket of sufficient size for repotting / transferring
- Industrial vacuum cleaner > 2,000 W.
- Sweeping material, measuring tools
- Roller, **Deko Roller**, 6 mm

Substrate inspection
Insufficiently even, absorbent, mineral substrates with shot-blasted or rough surface
The substrate must be dry, clean, free from release agents, and mechanically prepared to accept epoxy resin coatings.
Substrates with, for example, increased roughness or undulations in the screed must be leveled out without fail.

Flatness
The system structure / pavement structure should be adequately prepared, and the flatness of the area to be worked on should be sufficiently checked before execution of the work.
Dimensional tolerances in construction are most easily and commonly assessed according to DIN 18202 by individual measurement using a straightedge and a measuring wedge.
The most practical method for spot-checking the flatness of an area is measuring with a straightedge and a measuring wedge. The straightedge is placed on the surface to be checked and not aligned vertically or horizontally.
By moving the straightedge, the gap between two high points is measured at different measuring points. The spacing between measuring points is determined for each individual measurement based on the position of the two high points. For the evaluation of the measurement, the corresponding limit value for flatness deviation according to Table 3 of DIN 18202 or by interpolation is determined for each measuring point distance. The measured gaps are compared with the determined limit values for flatness deviation.

Partial excerpt of the dimensional table of DIN 18202
The required values from Table 3 of DIN 18202, which are essentially listed below, must be observed during the inspection:

[The required values from Table 3 of DIN 18202 are as follows.]

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According to Column 4, Row 3 for screeds and utility screeds, the measurement point distance at 1 m (straightedge) must not exceed 4 mm.
According to Column 6, Row 3 for screeds and utility screeds, the measurement point distance at 2 m (straightedge) must not exceed 6 mm.
According to Column 4, Row 4 for increased requirements for screeds and utility screeds, the measurement point distance at 1 m (straightedge) must not exceed 3 mm.
According to Column 6, Row 4 for increased requirements for screeds and utility screeds, the measurement point distance at 2 m (straightedge) must not exceed 5 mm.

Additional inspections on the substrate:be paid to simple and clean preparation for the profile during profile selection.
Highly absorbent substrates and weak, easily sanding substrates may need to be stabilized beforehand with a low-viscosity primer resin. Depending on the substrate, we recommend a designated priming system for this purpose.
The consumption for a low-viscosity epoxy primer resin is typically, depending on the nature and absorbency of the substrate, to be considered with 130 g/m² to 400 g/m² of epoxy resin. The higher the porosity of the surface to be treated, the higher the consumption.
The guidelines of professional associations, such as the BEB data sheets KH-0/U and KH-0/S, in their current versions, must be observed in their respective valid versions.

Non-absorbent and smooth substrates
For non-absorbent substrates such as tiles, natural stone, and synthetic resin coatings, they must first undergo an intensive and thorough cleaning to completely

Inspection of the substrate for absorbency, load-bearing capacity, sufficient tensile and compressive strength. Potential separating layers such as oils, paint residues, contaminations, free from weakly adhering components, etc. Check for room and floor temperature, dew point, adhesion pull-off strength, and after processing using shot blasting, the surface roughness.

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The substrate to be worked on is typically thoroughly ground with diamond tools or polycrystalline diamond (PCD) tools, vacuumed with a powerful vacuum cleaner (>2,000 watts), and freed from non-adhering substances. Screed joints and shrinkage joints are to be closed properly with adhesive strength. Building expansion joints are to be created accordingly and adapted to the system structure/coating structure regarding profile selection. Attention should already **remove any substances that could reduce adhesion, such as emulsions, oils, paint residues, or other release agents. Otherwise, the substrate should be thoroughly cleaned, sanded, and vacuumed thoroughly with a high-performance vacuum cleaner (ideally >2,000 watts).**

Mixing

On the inspected and prepared substrate, the priming is carried out with **Deko Prime** in 2 coats. For application, the use of a 6 mm deco roller is recommended. Consumption per coat ranges from 0.240 to 0.280 kg/m² on average.
Repainting for the 2nd coat can be done after approximately 10 to 24 hours depending on floor temperature, air exchange, and humidity levels.

Another primer coat must be applied within 24 hours without intermediate sanding.
From the 25th hour of reaction time, the first primer coat must be sanded, and all sanding dust must be completely removed.

In combination containers, one combination contains the materials that are factory-matched to each other in the correct mixing ratio. The container of component B has sufficient volume to accommodate the entire amount of component A. Component A is added completely to the hardener container B.

Mixing is done mechanically with a slow-speed stirrer at 200 to 400 rpm and should last at least 2 to 3 minutes until a homogeneous, streak-free mass is formed.

If dilution with water is required, components A + B must be mixed completely first. Then add water (max 5%) and homogenize completely again.

To avoid mixing errors, it is recommended to transfer the resin/hardener mixture into a clean container ("transferring") and mix briefly again to ensure complete homogenization. This prevents insufficiently mixed residues from the edge area of the container from being processed, which may not cure properly.

The processing time must not exceed 45 minutes at 20°C (see table "Processing Time").

Attention: Pot life end not detectable!

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After exceeding the pot life in the container, the product must not be processed anymore. The surfaces to be treated must be prepared accordingly so that rapid and unimpeded processing can take place.

Processing

As with all reactive resin systems, processing should be done immediately after mixing, and the mixed reactive components should be removed from the container to avoid curing in the container.Application is done with a lint-free roller, such as the **Deko Roller, 6mm**. It's usually advisable to divide the work areas beforehand to avoid unnecessary multiple applications and wild overlaps. For larger areas, it is recommended that multiple people handle the application. One or more individuals apply the material in one direction, while another person takes over the distribution of the freshly applied primer/sealer material in a crosshatch (90° angle) pattern.

On larger surfaces, a 50 cm wide roller, such as the **Deko Roller, 6mm**, should be used. The distribution roller should be soaked/wetted with material and used only for distribution, not for applying the sealing material. Always work "fresh on fresh" and ensure optimal distribution of the material.
Pooling must be avoided at all costs, as it can lead to streak formation. The temperature at floor and air level must not fall below 12°C, and the humidity level must not exceed 75%. The recommended climatic conditions must also be maintained during curing or drying. The temperature difference between floor and room temperature must be less than 3°C to prevent curing disturbances. It should be noted that sealing can lead to an increase in humidity due to drying, so it should not be applied in critical humidity areas. If a dew point situation occurs, regular drying and curing cannot take place, leading to curing disturbances and staining.
Water exposure should be avoided during the first 7 days. The specified curing times are based on 20°C; at lower temperatures, processing and curing times are extended, while they are shortened with an increase in temperature.

Failure to adhere to the processing conditions may result in deviations in the described technical properties of the final product.

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Special instructions & maintenance

Colored products should generally be used uniformly on a surface from the same batch, as slight color variations between different batches cannot be completely ruled out due to raw material factors. The batch number is indicated on the container labels. For certain colors, especially whites, yellows, oranges, or pastel light colors, adherence to the recommended layer thickness is important to ensure coverage. With certain light and weather influences and with prolonged and intense use, changes in color, loss of gloss, or yellowing may occur. In some cases, especially with intense, heavily pigmented colors used as functional surfaces indoors, there may be color transfer during cleaning. This can be avoided by applying an additional transparent sealer, such as Deko PU-Seal.To prevent wear and tear on smooth floors caused by swivel chairs/office chairs or other rolling furniture, suitable chair casters or floor protection mats must be used.Furthermore, to preserve the value of the surfaces, entrance and access areas should be adequately protected against dirt ingress from outside with a dirt trap or dirt lock. Contaminants such as gravel and sand can prematurely dull the floor system and increase the likelihood of scratches and other signs of wear.

Cleaning
To clean fresh contaminants and to clean tools immediately after use, water should be used. Hardened material can only be removed mechanically.

For cleaning sealed floor surfaces, a separate cleaning and maintenance recommendation is available. Aqueous primers and sealers may be cleaned or maintained with cleaning and care products earliest 7 days after application at 20°C to ensure interlayer adhesion.

Storage
Store dry and frost-free. Ideal storage temperature is 10 to 20 °C. Bring to suitable processing temperature before use. Ideally, allow container units to acclimate in the processing environment for at least 24 hours. Close opened containers tightly and use them as soon as possible.

Special Notes: The product is subject to the Hazardous Substances Ordinance, the Operational Safety Ordinance, and the transport regulations for dangerous goods. The necessary information is included in the DIN safety data sheet. Pay attention to the labeling instructions on the container label!
GISCODE: RE20

Labeling VOC content:

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(EU Regulation 2004/42) Limit value 140 g/l (2010,II,j/wb): Product contains < 140 g/l VOC in the processing state.

CE-LABELING

VOC content

	Limit value	Actual content	
Decopaint Richtlinie 2004/42/EG - Komponente A	< 140	0	g/l
Decopaint Richtlinie 2004/42/EG - Komponente B	< 140	0	g/l
DGNB - Komponente A + B	< 3	0	%
Klima:aktiv - Komponenten A + B	< 3	0	%
LEED - Komponente A + B	< 100	0	g/l
Minergie ECO ® - Komponente A + B	< 1 (< 2)	0	%

(In the context of the Decopaint Directive, the individual component is used for calculation. However, in sustainable building assessment systems, the mixture of both components in the respective mixing ratio is always decisive.)

Our information is based on our previous experiences and research. We guarantee the flawless quality of our Deko Design Systems products. However, we cannot take responsibility for the success of the services performed by the processor, as we have no influence on the processing and processing conditions on-site. We recommend creating test or trial areas in individual cases.

With the publication of this new Deko Design Systems product information, the previous information becomes invalid. The latest and most up-to-date version is available at dekodesignsystems.com.

Furthermore, our "General Terms and Conditions" apply.

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