

Product information

Deko PU-Seal

Colorless, low-emission, and environmentally friendly 2-component sealing on polyurethane basis, light stable, with a uniform high-quality matte finish

Verpackung

Articlenumber	Packaging	Content in kg (sm)	Quantity per palett
	Combi-can	1 kg (5 sm)	240
	Combi-container	5kg (25 sm)	90
	Combi-container	10kg (50 sm)	30

Product features

Mixing ratio by weight parts	A : B = 4 : 1 (Example: A 160 g : 40 g B)
Mixing ratio by volume parts	A : B = 100 : 24
Workingtime	10 °C : 120 Min. 20 °C : 60-90 Min. 30 °C : 30-45 Min.
Workingtemperature	Minimum 10°C (room and surface temperature)
Curing time	10 °C : 20 - 26 hrs. 20 °C : 16 - 24 hrs. 30 °C : 12 - 18 hrs.
Hardening	After 2 - 3 hours, dust dry at 20°C 2 - 3 days until mechanical stressability at 20°C 7 days until chemical stressability at 20°C
Recoating	After 16 - 24 hours, but no later than 48 hours at 20°C
Usage	ca. 0,200 kg/sm
Colour	farblos
Durability	12 month (Original sealed) – Protect from frost!!!

Product description

Deko PU-Seal is a high-quality, colorless 2-component universal sealant based on polyurethane, used for the final sealing of both polyurethane and epoxy resin coatings. Due to its water vapor diffusion capability, it can also be used to seal diffusion-capable coverings.

Deko PU-Seal produces elegant, evenly matte surfaces, giving the floor a velvety appearance. The product consists of a water-emulsified, high-quality polymer dispersion, which is closely cross-linked. This environmentally friendly technology enables low-emission products that meet all current requirements, especially for applications in residential and recreational areas and other areas where emissions are undesirable. The product meets the criteria for sustainable construction, e.g., according to DGNB, LEED, or Minergie ECO. In many areas, **Deko PU-Seal** is an excellent alternative to solvent-based sealants and can replace them in many areas.

Deko PU-Seal cures through physical drying and chemical cross-linking into a durable, robust film. The product yields a abrasion-resistant, light-stable film with low susceptibility to soiling and good cleaning ability.

Due to its high cross-linking, **Deko PU-Seal** achieves very low susceptibility to staining. The tendency to stain against household chemicals or strongly staining foods and beverages such as beer, red wine, or cola is low. Since stain-free performance is not achieved against all substances and under all conditions, please refer to additional technical documentation.

Deko PU-Seal has good resistance to water, cleaning agents, aqueous solutions, saline solutions, diluted acids and alkalis, as well as motor and heating oil. Deko PU-Seal has good adhesion on various substrates and can therefore be largely used even after applying test areas and testing interlayer adhesion on old epoxy and polyurethane resin coverings.

Note: Sealed surfaces are only partially mechanically loadable; floor conveyors can attack or destroy sealing layers. Therefore, its use is only partially suitable. In areas with high and frequent wet loads as well as with certain chemicals, Deko PU-Seal can replace many solvent-based sealants in terms of chemical resistance.

Application area

Used as a colorless matte sealant for **Deko Design** and other high-quality epoxy resin and polyurethane coatings. Specifically designed for residential and recreational areas.



Decorative commercial spaces with or without decorative inclusions such as showrooms, exhibition spaces, retail stores, offices, residential areas, etc., on decorative terrazzo surfaces as final sealing, typically with low or no traffic from floor conveyors (pallet trucks and forklift traffic). Suitable as a finish for high-quality, light-stable, elastic decorative coatings. Can be used as a matte sealant on water vapor diffusion-capable coatings with or without chip inclusions. **Also excellent for microcement and epoxy resin tables.** Sealing and reworking of existing surfaces after appropriate preliminary examination.

Suitable exclusively for indoor use.

Features

- very low emissions
- EMICODE EC 1 plus certified
- low odor
- Environmentally friendly
- very high adhesive
- Water vapor diffusion capable
- easy application
- Abrasion and wear resistant
- silke-matt
- even surface

Technical data

Viscosity component A+B	Ca. 400 - 700	mPas	DIN EN ISO 3219 (23 °C)
Solid content	>40		
Density component A + B	1,08	kg/l	DIN EN ISO 2811-2 (20 °C)
Abrasion	>13	mg	ASTM D4060 (CS10/1000)
Flashpoint	not flammable	-	DIN 51755
Degree of gloss	15 bei 85°	-	DIN 67530

Diffusion resistance factor	7500	-	DIN EN ISO 12572
Diffusion equivalent air layer thickness	(0,1 mm) 0,75	m	DIN EN ISO 7783-2

The values determined in tests are averages. Deviations from the product specification are possible

More information about our Deko Design Systems can be found on our website:
www.dekodesignsystems.com

Tools and equipment

- Protective covering for mixing area and adhesive tapes
- Mixing paddle with adjustable mixing speed RPM (if necessary, spare device)
- Paddle mixer in 120 mm or corresponding size
- Digital scale in 1 gram increments, ideally 0.001 kg to 30.000 kg
- Tool for cutting expansion 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
- Squeegee
- Protective gloves
- Safety goggles
- Extension / profile extension
- Spikeshoes
- Pliers / screwdriver / spatula for opening containers

Tests

The following results are based on external test certificates:

- Certified low-emission according to EMICODE with EC1 plus label.
- Chair castor test according to DIN EN 425:2002-08
- VABS-compliant according to PV 3.10.7. (VW test)
- Product complies with DIN EN 13813:2003-01
- Note: Please inquire about the tested system configuration!

Substrate assessment

The substrate to be coated must be even, dry, free from dust, sufficiently tensile and pressure-resistant, and free from weakly adhering components and flakes.

Commented [1]: @yvonne.mordziol@dekofloors.com
bitte Änderung auch auf den Dokumenten der Website durchführen - Auflage-Datum ist aktualisiert - Dankeeee
;-)
yvonne.mordziol@dekofloors.com zugewiesen



Substances reducing adhesion such as grease, oil, and paint residues must be removed beforehand through appropriate measures. The guidelines of professional associations, such as the BEB working sheets KH-0/U, KH-0/S, and KH-2, in their current version, must be observed.

Usually, the sealing is applied as the final layer during the coating process. Care must be taken to ensure that the preceding layer is not already contaminated. The optimal time to seal is when the preceding layer has formed a sufficiently resistant film but is not yet fully cured. For typical systems, this occurs at 20°C after a minimum of 18 hours and a maximum of 72 hours.

If sealings are carried out after a later point in time, it must be ensured through the application of a test area and examination that sufficient adhesion is achieved. On old substrates, cleaning and, if necessary, mechanical preparation must be carried out.

When sealing old synthetic resin surfaces, it must be ensured through testing that sufficient adhesion is achieved. In case of doubt, a test area is recommended.

Mixing

In combination containers, the materials are pre-mixed at the correct ratio at the factory. Bring the container of component A to processing temperature before use and shake it well, then empty the contents into a clean, oval bucket. Add component B and immediately mix. Mixing is done mechanically with a slow-speed stirring device (200 to 400 rpm) and should take 2 to 3 minutes until a homogeneous, streak-free mass is obtained. To avoid mixing errors, it is recommended to transfer the resin/hardener mixture into a clean container ('repotting').

The processing time must not exceed 1 - 1.5 hours at 20°C (see processing time table).

Caution: End of pot life is not detectable!

Processing

Bring to suitable processing temperature before application. Seal opened containers tightly and use as soon as possible.

As with all reactive resin products, processing should occur immediately after homogenization. Application is done using a squeegee or **Deko roller, 6mm.**



Typically, work areas should be divided beforehand to avoid multiple applications and wild overlaps. Uneven surface appearance and streaking may occur due to overlapped and multiple applications. For larger areas, it is recommended that two or more people perform the application. One or more persons lay the material in one direction, while another person takes over the spreading of the freshly applied sealing material in a crosshatch (90° angle) pattern. For the final rolling, a 50 cm wide roller, Deko roller, 6mm should be used on larger areas. The distribution roller should be saturated/wetted with material and only used for distributing, not applying, the sealing material. Always work 'fresh on fresh' and ensure optimal distribution of the material. Avoid puddling, as this may lead to streaking. Ensure that puddles running off from baseboards are distributed with the velour roller. Over-application (puddling) can cause foaming during curing.

The temperature at the floor and in the air must not fall below 10°C, and the humidity must not exceed 75%. The recommended climate conditions must also be maintained during curing or drying. The temperature difference between floor and room temperature must be less than 3°C to avoid disturbing the curing process. In case of a dew point situation, regular drying and cross-linking cannot occur, resulting in curing disturbances and spotting. Water and chemical 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 temperature increase. Failure to comply with processing conditions may result in deviations in the described technical properties of the final product.

Cleaning

To remove fresh contaminants and clean tools immediately after use, use water. Hardened material can only be removed mechanically.

Storage

Store dry and frost-free. Ideal storage temperature is between 10 and 20°C. Protect from direct sunlight. Do not store in overheated cars and do not exceed 25°C. Risk of clumping.

Special instructions

The product is subject to the Hazardous Substances Ordinance, the Operational Safety Ordinance, and the transport regulations for hazardous goods. The necessary instructions are included in the DIN safety data sheet.

Observe the labeling instructions on the container label!

GISCODE: W1/DD

Labeling VOC content:(EU Regulation 2004/42) Limit value 140 g/l (2010, II, j/wb):

Product contains < 140 g/l VOC in processing state.

CE-labeling

VOC-content

The product meets the high requirements for low VOC levels as demanded within the framework of sustainable construction. Thus, the limits required by the EU in Directive 2004/42/EC (Decopaint Directive) are significantly exceeded.

	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	%

(Within the framework of the Decopaint Directive, each component is used for calculation. In sustainable building assessment systems, it is always the mixture of the two components in the corresponding mixing ratio that is decisive.)

Our information is based on our previous experiences and research. We guarantee the impeccable quality of our Deko Design Systems products. However, we cannot assume responsibility for the success of the services carried out by the processor, as we have no influence on the processing and processing conditions on site. We recommend creating test or experimental 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 www.dekodesignsystems.com

In addition, our "General Terms and Conditions" apply."