KLB KÖTZTAL
Lacke+Beschichtungen GmbH

KLB-SYSTEM SEAL-PRO
FD 585

Low-VOC, ready-to-use, sprayable hybrid polymer joint sealant in a 580 ml foil cartridge for elastic sealing of movement joints on floor or wall surfaces, corner or connection joints in industrial or commercial facilities, both for interior and exterior use.

Packaging units

Article no.	Standard colour	Packaging	Content (kg)
ZA1420-99	Concrete grey	Cartridge	1.00 St
ZA1420-98	Agate grey	Cartridge	1.00 St

Product characteristics

Mixing ratio parts by weight	ready-to-use
Processing temperature	5 °C / 41 °F up to max. 40 °C / 104 °F
Curing	2 - 3 mm (in 24 hours, at 23 °C/ 73.4 °F and 50 % RH)
Skinning time	20 Min. (23 °C/50 % RF)
Consumption	5 x 5 mm: approx. 35 g/running metre; approx. 16 running metre/hose 10 x 10 mm: approx. 140 g/running metre; approx. 4 running metre/hose Triangular joint: 5 x 5 mm: approx. 17,5 g/running metre; approx. 32 running metre/hose 10 x 10 mm: approx. 70 g/running metre; approx. 8 running metre/hose
Permissible total deformation	25%
Temperature resistance	-40 - 90 °C
Packaging	Film cartridge 580 ml
Colours	approx. RAL 7038 - Agate grey, approx. RAL 7023 - Concrete grey
Shelf life	12 months (originally sealed)

Product description

KLB-SYSTEM SEAL-PRO FD 585 is a low-emission, EC 1^{PLUS}-tested, silicone- and isocyanate-free hybrid sealant for expansion and connection joints to coatings and floor coverings.

KLB-SYSTEM SEAL-PRO FD 585 is one-component and easy to process with its good mechanical, chemical and thermal stability, which makes it particularly suitable for flooring applications.

The product is low in odour and emissions; it can be used for a wide range of indoor and outdoor applications.

KLB-SYSTEM SEAL-PRO FD 585 is certified according to EC 1^{PLUS} and meets not only the requirements for a building certification according to DGNB, LEED, BREEAM or the German requirements of AgBB or ABG, but also the emissions regulations of many other European countries. This makes the product ideal for use in recreation rooms and areas of food processing. Once cured, the material can be coated and ground.

If joints are to be installed in areas with chemical exposure, the suitability of the products must be checked. Please refer to the chemical resistance table.

Sealant joints are maintenance joints in accordance with DIN 52460, therefore must be checked at regular intervals and replaced if necessary.

Area of application

- Sealing mechanically loaded movement and connection joints that are exposed to static loads or rolling traffic, e.g. in warehouses and production halls, workshops, car washes, parking decks, underground car parks, etc.
- In facilities that are exposed to high levels of moisture, such as dairy farms, butcheries, in the beverage and food industry, commercial kitchens, bakeries, etc.
- Stress-equalising sealing of floor and connection joints in the interior and exterior for balconies, terraces and public areas
- Filling maintenance joints between concrete floor slabs.
- Sealing field bounday joints in standard coatings and other bonded floor coverings

Special remarks:

- If materials other than standard KLB coatings are present, we recommend seeking advice or checking the adhesion on the respective substrate.
- Check the suitability of the sealant for subsequent use of the coatings and joints in areas where chemicals are handled. The resistance tables must be observed and we recommend seeking advice.
- No permanent tightness and sealing effect in accordance with standards.

Product features

- elastic
- high adhesive strength
- paste-like consistency
- ready-to-use
- easy application
- EMICODE® EC 1PLUS certified
- low-shrink
- can be coated
- chemical-resistant
- low susceptibility to dirt
- free of deleterious substances against varnish
- for interior and exterior areas

Technical data

Viscosity	stable at 23	°C	
Solid content	> 99,8	%	KLB method
Density	1.4	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Tensile strength	4.8	N/mm²	DIN EN ISO 37, Typ 3
Elongation at break	1500	%	DIN EN ISO 37, Typ 3
Shore-hardness A	34	-	DIN EN ISO 868
Stretch tension value at 100%	0.8	N/mm²	DIN EN ISO 37, Typ 3
Tear resistance	15.9	N/mm	DIN EN ISO 34-1
Volume srinkage	4.1	%	DIN EN ISO 10563

The values established in tests are average values. Deviations from the product specification may occur.

Tests

The following external test certificates are available:

- Certified as low-emission according to the EMICODE EC1 Plus label. Compliant with AgBB.

Substrate

The joints to be sealed must be clean, free of grease, dry and load-bearing. Any previous coatings must be fully cured. Materials impairing adhesion such as grease, oil, paint residues, release agents, old sealants or other weakly-bonded substances, should be removed completely. Absorbent or porous substrates, such as concrete, must be ground or cleaned with a steel brush.

If necessary, clean the surfaces with a cloth soaked in **VR 24** thinner. After cleaning, allow the surface to dry for approx. 5 minutes. Take care with fresh surfaces to avoid changes.

Processing

Before applying the joint sealant, insert a closed-cell round cord that is approximately 10% larger, so that adhesion only occurs on two sides. This can be used for both floor-to-floor and wall-to-floor joints. If it is not possible to insert the round cord, the separation should be achieved using a film or adhesive tape. Further information can be found in the IVD info sheets (German industrial association for sealing materials "INDUSTRIEVERBAND DICHTSTOFFE E.V.")

The application of the joint sealant is done after appropriate substrate preparation using a 600 ml cartridge gun, ensuring an even bead is applied to the joint.

The joint can then be smoothed with a standard smoothing tool or similar equipment.

Special note:

Due to the many possible influences during processing and application, the applicator must always carry out a test sealing. The respective use-by date is indicated on the container and must be observed.

Cleaning

Fresh contamination should be removed as much as possible before the gelling phase of the joint sealant. To remove fresh residue and to clean tools, use VR 28 or VR 119 immediately, if necessary. Hardened material can only be removed mechanically.

Storage

Store the unopened original packaging in a dry place and at a normal temperature/ humidity. Recommended storage temperature is approx. 15 - 25 °C / 59 - 77 °F with a relative humidity of less than 60%. Higher temperatures and humidity, especially during transport, may reduce storage stability. Protect from direct sunlight. Use up opened containers as soon as possible.

Special remarks

The product is regulated by the German Ordinance on Hazardous Substances (GefStoffV), the German Ordinance on Industrial Safety and Health (BetrSichV), and transport regulations for hazardous goods. The necessary information is contained in the DIN Safety Data Sheet. Observe all identification information on the container label!

GISCODE: DH20

Indication of VOC-content:
(EG-Regulation 2004/42) Maximum Permissible Value 500 g/l (2010,II,i/lb): Ready-for-use product contains < 500 g/l VOC.

Please consider the latest version of this product information on our website.

KLB KÖTZTAL Lacke+Beschichtungen GmbH
Günztalstraße 25
89335 Ichenhausen, GERMANY
Phone +49 (0) 8223-96 92-0
Fax +49 (0) 8223-96 92-100
www.klb-koetztal.com
info@klb-koetztal.com