

## Technical Data Sheet

33.06.632E – 07/06

### ® KERAPLAN EP 631

**Anti-skid synthetic resin coating withstanding severe mechanical stress for the protection of floor areas**

#### Description

KERAPLAN EP 631 is a jointless, solvent free, nonylphenol- and silicone-free synthetic coating based on epoxy resin with mineral fillers. The layer thickness may range between 3 and 8 mm depending on the requirement.

Solvent free in acc. with **ibh** – recommendation

#### Typical uses

KERAPLAN EP 631 is recommended as a surface protection system for concrete and screed surfaces in a wide variety of applications.

KERAPLAN EP 631 is predominantly used as flooring material in chemical factories, warehouses and factory buildings, breweries, maintenance rooms, workshops and areas exposed to traffic.

#### Properties

KERAPLAN EP 631 is a jointless anti-skid flooring material that can be exposed to severe mechanical stress and is resistant to a wide range of chemicals. The coating hardens with no shrinking and is available in various colour tones.

- Slip-resistant (DIN 51 130) R11 –12

#### Chemical resistance

Information on the chemical resistance properties will be furnished on request.

#### Substrate

Concrete structures shall comply with the requirements of DIN EN 14879-1.

#### Surface pre-treatment

If required, the concrete surface shall be treated by means of abrasive blasting to ensure that it is free of laitance, cement skin, loose or brittle particles, structural flaws and any substances that may act as separating agents. The residual moisture of the concrete surface should measure < 4%.

#### Application

KERAPLAN EP 631 is composed of a three-component Top Coat, which is strewn with silica sand, and a two-component Sealing Layer.

Mixing ratios	Parts by weight (kg)	Parts by volume (l)
<u>Top Coat</u>		
KCH EP solution 2	100	2.00
KCH EP hardener 6	60	1.30
KCH powder 15	200	3.40
<u>Sealing Layer</u>		
KCH EP solution 7 RAL	100	2.00
KCH EP hardener 6	40	1.00

Distribute the Top Coat compound using a smoothing tool or blade and strew wet surface with an excessive amount of KCH powder 6. The Top Coat needs to be applied twice to achieve a coating thickness exceeding 4 mm. Apply the Sealing Layer on the hardened Top Coat and skim over the silica corn using a rubber smoothing tool. Finally the wet sealing is to be rolled with a lambskin roller in order to achieve an optically uniform surface texture. The thickness of each applied Top Coat shall measure approx. 3 - 4 mm.

#### Pot life

Temperature	Top Coat	Sealing Layer
15°C	~ 60 min.	~ 40 min.
20°C	~ 45 min.	~ 30 min.
30°C	~ 20 min.	~ 13 min.

#### Coverage

Top Coat (per application): approx. 3.0 kg/m<sup>2</sup>  
approx. 3.5 kg/m<sup>2</sup> KCH powder 6

Sealing Layer: approx. 0.6 - 0.7 kg/m<sup>2</sup>

#### Packing

The following standard quantities are available:

KCH EP solution 2	5, 20 kg
KCH powder 6	25 kg
KCH EP solution 7 RAL	20 kg
KCH EP hardener 6	5, 20 kg
KCH powder 15	25 kg

**Storage**

The products shall be stored in a cool and dry place. With a storage temperature of 23°C the minimum shelf life is as follows:

KCH EP solution 2	12 months
KCH powder 6	24 months
KCH powder 15	24 months
KCH EP solution 7 RAL	12 months
KCH EP hardener 6	12 months

Higher temperatures will shorten the shelf life of this products. The packaging drums are to be kept tightly shut and are to be resealed each time material has been removed. All liquid products must be stored frost-free.

**Safety**

Adequate ventilation is to be provided while work is in progress. Ventilation is compulsory for all work carried out in pits and closed rooms.

All vapours that are produced while work is in progress must be continuously suctioned off at floor or bottom level.

Only the amount of material effectively required to continue work is to be stored at the working place. The instructions for the prevention of fire and explosion are to be observed if required.

Please note and ensure that even the smallest quantities of the individual components and/or prepared mixtures are not allowed to reach the sewerage.

All regulations for the prevention of accidents stipulated by the employer's liability assurance association, the regulations for the prevention of accidents prescribed at the site of application and the TRGS 507 „Surface treatment in rooms and tanks“, as well as the safety precautions listed on the packing (label) required by the provisions of the Hazardous Materials Ordinance shall be adhered to. The operating instructions pursuant to § 14 GefStoffV as well as the EC safety data sheets are to be complied with.

Technical data	Test specification	Unit	Parameter
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.9
Compressive strength	DIN EN ISO 604	MPa	70
Tensile strength	DIN EN ISO 527	MPa	18
Elongation at tear	DIN EN ISO 527	%	1.5
Flexural strength	DIN EN ISO 178	MPa	32
Modulus of elasticity (bending)	DIN EN ISO 178	MPa	4,100
Adhesive strength to concrete/screed <sup>*)</sup>	DIN EN 24624	MPa	> inherent strength of substrate
Hardness	DIN 53505	Shore D	80
Dissipation Resistivity (to earth)	DIN EN ISO 1081	Ω	> 10 <sup>9</sup>
Coefficient of linear thermal expansion	DIN 53752	K <sup>-1</sup>	55 · 10 <sup>-6</sup>
Maximum operating temperature		°C	80

<sup>\*)</sup> compressive strength 25 MPa

The technical data contained herein represents the current state of our product knowledge and is intended to furnish general information regarding our products and their application spectrum. In view of the diversity and multitude of application possibilities, this data should be regarded solely as general information, which does not guarantee any specific properties and/or suitability of these products for each concrete case of application. Consequently, when ordering a product, please contact us for detailed information relative to the properties required for a specific application. Our technical service will, upon request, furnish a profile of characteristics for the concrete application without delay.

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