

Technical Data Sheet

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® KERAPLAN EP 430

Anti-skid synthetic resin coating for protection of concrete areas

Description

KERAPLAN EP 430 is a joint-free, solvent free, nonylphenol- and silicone-free coating material based on epoxy resin with mineral fillers. The layer thickness is approx. 1 mm.

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

Typical uses

KERAPLAN EP 430 is used to protect concrete and screed surfaces for versatile purposes. It is predominantly used as flooring material in storerooms and workshops, maintenance rooms and all other surfaces exposed to moderate mechanical and chemical stress.

Properties

KERAPLAN EP 430 is a joint-free, anti-skid flooring material that can be exposed to traffic. The coating material hardens without shrinking and is available in various colours.

- Slip-resistant (DIN 51 130) R11 –12

Chemical resistance

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

Substrate

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

Surface pretreatment

If required the concrete substrate must be treated by means of blasting in such a way that it is free from cement slurries, cement skin, loose and brittle particles, defects and separating substances. The residual moisture of the concrete surface shall be < 4 %.

Application

KERAPLAN EP 430 consists of a two-component Primer strewn with quartz sand and a two-component Top Coat.

Spread the Primer on the substrate using a roller and strew an generous amount of KCH powder 6 over it.

After hardening suck off the surplus of KCH powder 6 and apply the Top Coat twice using a roller. The thickness of the coating shall be approx. 1 mm.

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

Pot life

Temperature	Primer	Top Coat
15°C	~ 45 min.	~ 40 min.
20°C	~ 30 min.	~ 30 min.
30°C	~ 20 min.	~ 13 min.

Coverage

Primer: approx. 0.4 kg/m²
approx. 2.0 kg/m² KCH powder 6

Top Coat: approx. 0.6 - 0.7 kg/m²

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

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 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 ³	1.8
Compressive strength	DIN EN ISO 604	MPa	60
Tensile strength	DIN EN ISO 527	MPa	19
Elongation at tear	DIN EN ISO 527	%	2.1
Flexural strength	DIN EN ISO 178	MPa	23
Modulus of elasticity (bending)	DIN EN ISO 178	MPa	2,800
Adhesive strength at concrete/screed*)	DIN EN 24624	MPa	> inherent strength of substrate
Hardness	DIN 53505	Shore D	78
Dissipation Resistivity (to earth)	DIN EN ISO 1081	Ω	> 10 ⁹
Coefficient of linear thermal expansion	DIN 53752	K ⁻¹	55 · 10 ⁻⁶
Maximum operating temperature		°C	60

*) 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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شرکت کسری نماینده رسمی KCH آلمان