

Technical Data Sheet

33.06.680E – 11/06

® KERAPLAN EP 410 TX

Solvent-free, two-component epoxy resin texture coating

Description

KERAPLAN EP 410 TX is a slip-resistant, pigmented, solvent-free, nonylphenol- and silicone-free thin film coating based on epoxy resins.

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

Typical use

KERAPLAN EP 410 TX is recommended as a surface protection system for concrete and screed surfaces in a variety of applications, particularly in such cases where the surface and overall visual appearance must meet very exacting standards. This product is primarily applied as a floor coating in chemical process plants, warehouses, production halls and workshops.

Properties

KERAPLAN EP 410 TX is a floor coating that is fit for traffic, can be exposed to mechanical loads and has a broad spectrum of chemical resistance properties. The coating hardens without shrinkage and may be applied without seams. KERAPLAN EP 410 TX is available in a broad range of colors.

- Slip-resistant (DIN 51 130) R10

Chemical resistance

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

Substrate

All concrete structures must meet the requirements given in DIN EN 14879-1.

Surface pretreatment

If required, the concrete surface 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 should measure <4%.

Application

KERAPLAN EP 410 TX is packaged and shipped in pre-measured units.

KERAPLAN EP 410 TX is composed of a two-component primer and a two-component top coat.

| Mixing ratios | Packing size (kg) | Parts by weight (kg) |
|---------------------------|-------------------|----------------------|
| <u>KCH EP Primer 12</u> | | |
| Component A | 12.50 | 100 |
| Component B | 7.5 | 60 |
| <u>KERAPLAN EP 410 TX</u> | | |
| Component A | 20 | 100 |
| Component B | 4 | 20 |

When used as a primer, the compound is applied with a roller, brush or rubber squeegee. Special care should be taken to avoid puddles/sagging, to ensure that all voids are filled and that a solid surface is achieved. Apply the KERAPLAN EP 410 TX compound thinly to the substrate (max. 0.3 mm) using a smoothing tool and then roll out using a texture roller (e.g. Moltopren 8018 G).

Pot life

| Temp. | Primer | Top coat |
|-------|--------------------|--------------------|
| 15°C | approx. 40 minutes | approx. 40 minutes |
| 20°C | approx. 30 minutes | approx. 30 minutes |
| 30°C | approx. 20 minutes | approx. 20 minutes |

Coverage

Primer: approx. 0.3 kg/m² (compound)
Top coat: approx. 0.55 kg/m² (compound)

Packing

The following standard quantities are available:

| | |
|----------------------------|------------------|
| KCH EP Primer 12 Comp. A | 3.13 and 12.5 kg |
| KCH EP Primer 12 Comp. B | 1.87 and 7.7 kg |
| KERAPLAN EP 410 TX Comp. A | 20 kg |
| KERAPLAN EP 410 TX Comp. B | 4 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 Primer 12 Comp. A | 12 months |
| KCH EP Primer 12 Comp. B | 12 months |
| KERAPLAN EP 410 TX Comp. A | 12 months |
| KERAPLAN EP 410 TX Comp. B | 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 | 1.43 |
| Compressive strength | DIN EN ISO 604 | MPa | 65 |
| Tensile strength | DIN EN ISO 527 | MPa | 31 |
| Elongation at break | DIN EN ISO 527 | % | 2 |
| Flexural strength | DIN EN ISO 178 | MPa | 36 |
| Modulus of elasticity (flexural test) | DIN EN ISO 178 | MPa | 3.800 |
| Adhesive strength to concrete/screed ^{*)} | DIN EN ISO 4624 | MPa | > inherent strength substrate |
| Hardness | DIN 53505 | Shore D | 70 |
| Leakage resistance to earth | DIN EN ISO 1081 | Ω | > 10 ⁹ |
| Coefficient of linear thermal expansion | DIN 53752 | K ⁻¹ | 65 · 10 ⁻⁶ |
| Maximum service temperature | | °C | 80 |

^{*)} 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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