ZP 10

Technical Data Sheet

Description:

Universal transparent two-component solvent-free epoxy for wet surfaces.

Usage:

Primarily used as a penetrating coating for dry and wet mineral and ceramic substrates, as an absorbent and anti-scratch coating for interior use, as a sealer or penetrating coating under asphalt strips, as a filler mortar (horizontal application only), as a multi-layer anti-slip coating, as an industrial floor screed or as a topcoat.
The main benefits are the wide versatility of use, excellent chemical and mechanical resistance, high resistance to thermal shock, curing without volume shrinkage, ready-to-use packaging of both components in the required mixing ratio.
Can be overlayed with other manufacturer‘s self-levelling smooth and slip-resistant epoxy and polyurethane flooring systems.

Substrate:

mineral substrates

Colours:

0000 - colourless

Specific gravity: (ČSN EN ISO 2811-1)

1,08 ± 0,2 g/cm3

Solids: (ČSN EN ISO 3251)

by weight 100 ± 2 %
by volume 100 ± 2 %

Mixing ratio:

by weight 100 : 60 hardener ZH 96
by volume 160 : 100 hardener ZH 96

Drying: (ČSN 673052)

1000 µm WFT, temperature 23 ± 2°C,, relative humidity 50 ± 5%,	suface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	8 hours	12 hours	48 hours

Drying and recoatability time strongly depend on wet film thickness, temperature, humidity, ventilation and paint colour. Fully load and measure the coated film after 7 days, laboratory testing after 3 weeks of drying under the above conditions.

Application conditions:

The recommended processing temperature of the substrate, environment, material and products is +10 °C to +25 °C, relative humidity max. 85%. The temperature of the substrate and the uncured product must be at least 3 °C above the dew point.
Mix components A and B well before use, mixing component A (ZP 10) and component B (ZH 96) in the correct mixing ratio. Mix mechanically (300-800 rpm) until both components are homogeneous. Depending on the application, fillers are added during mixing. Mix until the mixture is homogeneous.
Avoid condensation of moisture on the surface from the time the preparation starts until the products are fully cured. Ensure sufficient ventilation during curing and do not exceed the maximum relative humidity.

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Issued: 01.04.2025
Revision: A1

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Surface preparation:

Before starting to prepare the substrate and apply the product, it is important to check the following parameters in order to achieve a good and long-lasting result.
Compressive strength of the substrate: min. 25 N/mm²
Tensile strength of the substrate: min. 1.5 N/mm²

ZP 10 can be applied to both dry and wet substrates.

Expansion joints must be made on the substrate. Shrinkage joints and passive cracks may be painted provided that they are not used as expansion joints or if they do not serve to compensate for other movements of the structure and the substrate.

CONSUMPTION
As a primer for dry substrates
Approx. 300 to 500 g/m², depending on surface roughness. Apply in one coat.

As a primer for damp substrates
Minimum 600 g/m², depending on the surface roughness. Apply in two separate coats at least 1 hour apart.

As a smoothing compound with filler
Approx. 1.5 to 1.6 kg/m²/mm

As a system under asphalt insulation
Approx. 1.7 to 1.8 kg/m²/mm

As a mortar with sand
Approx. 2 kg/dm³

Pot-life:
-Penetrating coating: 30 minutes
-Leveling trowel or mortar: 45 minutes

Cracks, joints and other points where water can penetrate must first be completely sealed and secured against permanent water penetration. The surface must be mechanically treated beforehand. This can be achieved by blasting or sanding. This treatment will ensure an open textured surface, removing the separating cement layer from new mineral surfaces and paint and adhesive residues from old surfaces.
Ceramic surfaces should always be sanded. Apply products to a clean surface free of adhesion inhibiting materials such as dirt, oil, grease, old paint or finishes. When applied under asphalt insulation, compatibility with the asphalt surface being applied should be verified in advance by adhesion testing.

As a primer for wet and dry substrates
Apply the prepared mixture without fillers to the substrate and spread with a trowel. Use a roller or brush to achieve an even spread.

As a squeegee / levelling squeegee with filler
Add silica sand in the 0.25 mm fraction to the prepared A+B mixture at a weight ratio of A+B / filler = 1 / 1-1.5. Spread the mixture on the surface with a trowel, tooth comb or stainless steel trowel. For perfect venting, roll with a pointed vent roller.

As a mortar with sand
Add silica sand in the 0.5 mm fraction to the homogeneously mixed A+B components in the weight ratio A+B / filler = 1 / 7-10. The mortar is applied over a fresh, still damp primer. Spread with a trowel and compact well. Minimum layer thickness 7 mm.

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As an anti-slip coating
The 1st coat is applied as a primer (see above) and the dried sand of the required grain size is mixed into this wet coat. After drying, cleaning and brushing, a 2nd coat is applied with consumption depending on the size fraction of the sand used.

As a trowel floor with topcoat
The 1st coat is applied as a primer (see above) and 0.3-0.5 kg/m² of quartz sand is mixed into this wet coat. After drying, cleaning and brushing, a 2nd layer of mortar is applied at a rate of 2 kg/m²/mm. The actual consumption of trowel mortar depends on the size of the filler. Quartz powder and coloured quartz sand are added to the formed A+B mixture at a weight ratio of A+B/filler = 1/10.

As a system under asphalt insulation
Penetrating coating:
Apply the prepared A+B mixture without fillers at a consumption of approx. 500 g/m² and spread with a trowel. Spread evenly with a roller or brush. Cover the wet primer with approx. 800 g/m² of dried quartz sand in the fraction 0.2-0.8 mm.
Sealant:
The 1st coat is applied as a primer with a lambskin roller or rubber squeegee using approx. 500 g/m² until saturated. The wet primer is sprinkled with dried quartz sand 0,7-1,2 mm with a consumption of 3,0-3,5 kg/m². After the 1st coat has cured, excess sand should be removed. The 2nd coat A+B is applied with a lamb roller or rubber squeegee at a rate of approx. 600 g/m².

After 24 hours, ZP 10 can be overcoated with any epoxy or polyurethane system.

CHEMICAL RESISTANCE
Good chemical resistance to alkalis, petroleum derivatives, acids, di-glutinated organic acids, salts and solutions. For more information contact the manufacturer.

Application method:

. To prepare and apply the mixture, you will need clean mixing containers of the appropriate size, a stirrer with a spindle (min. 300-800 rpm), a squeegee, a brush or roller suitable for epoxy based products, a ventilation roller, a stainless steel squeegee or trowel, depending on your preferred application.

Prepare any required ancillary products prior to application. Use the manufacturer's recommended thinner to clean work tools and undried product residue. Prepare any required dried fillers, 0.25-0.5mm quartz sand, quartz powder, coloured quartz sand prior to application.

Clean uncured residues of ZP 10 and used tools with ZT 03 thinner. Cured residues should be removed mechanically.

Storage:

Store in a dry, well-ventilated place at a temperature of +5 to +35 °C.

Packaging in kg:

8,75; 17,5

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Notes:

DFT - dry film thickness	MS - medium dry matter	GU - Gloss Unit
WFT - wet film thickness	HS - high dry matter	KU - Krebs unit of viscosity

All information given in this technical data sheet are based on our best knowledge, laboratory test results and practical experience to the date specified below. According to the fact that the conditions of the product's use are out of our control, we can only guarantee the product quality itself. As a producer we cannot be responsible for damage arising from the use of the products without following above recommended instructions or for improper purposes. We reserve the right to change above specified information without prior notice. Always request the actual version of the product data sheet. This technical data sheet replaces all previously released. The validity of the data provided here will be terminated automatically after five years.

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