

KÖSTER® Polysil TG 500

Deeply penetrating primer and liquid hardener for sealing slurries

Product Description:

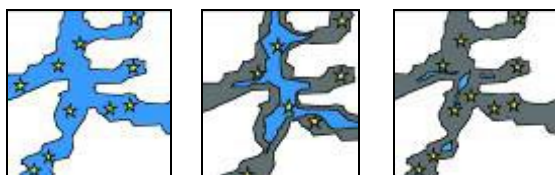
Turkish product name > KÖSTER Polysil TG 500

KÖSTER Polysil TG 500 is a very low viscosity fluid combination product on polymer- and silicate-base.

On salt-containing and on damp substrates, it leads to a reduction of the pore volume and thus decreases the danger of new development of salt efflorescence.

It also increases the chemical and mechanical resistance of mineral building materials. Depending on the substrate, the product penetrates the substrate up to 2 cm deep.

KÖSTER Polysil TG 500 acts strengthening and hydrophobing. The material is compatible with mortars, plasters, slurries on cement base and with concrete.



Working mechanism of KÖSTER Polysil TG500

Applications:

KÖSTER Polysil TG 500 is used to strengthen, to protect and to reduce the absorbency of mineral substrates, even of such problematic building materials as sandstone.

KÖSTER Polysil TG 500 decreases the danger of new development of salt efflorescence and raises the resistance of mineral substrates to freezing and thawing.

KÖSTER Polysil TG 500 can also be used to harden sealing slurries. It does not cause shell building. All mineral substrates are

suited for application (except for gypsum).

Furthermore, KÖSTER Polysil TG 500 can be used as primer underneath subsequent layers of plastic-modified bitumen thick film sealants such as KÖSTER Deuxan 2K and KÖSTER Polyflex 2K.

Technical Data:

Specific gravity 1,03 g / cm³

Application temperature +5°C to +30°C

Instructions:

Job Conditions - Air and surface temperature for application must be +5°C to +30°C and must remain so for a minimum of 24 hours.

Substrate Preparation - KÖSTER Polysil TG 500 can be applied to weakly and to strongly absorbing, to dry and to moist mineral based substrates.

The substrate has to be free of oil and loose particles.

Salt efflorescence must be removed prior to application of KÖSTER Polysil TG 500 e. g. by brushing.

Application 1: Deeply penetrating priming:

KÖSTER Polysil TG 500 can be brushed or sprayed on (consumption approx. 100 – max. 130 g/m² for normal surfaces, apply 2 coats on very porous surfaces) During the curing time, the surrounding and substrate temperature must not fall below 0°C.

Salts which came through the surface of the substrate during the curing process must be removed by brushing. After full cure, no more salts will come to the surface.



Application 2: Waterproofing from the inside using rigid sealing slurries :

In order to construct extremely resistant coatings using KÖSTER NB Super, the substrate is first primed with KÖSTER Polysil TG 500 (consumption approx. 100 – max. 130 g/m²) and is, after approx. 30 minutes, covered with KÖSTER NB Super (consumption approx. 1,0 kg/m²)

Immediately after applying the slurry, it is coated or spray-coated with KÖSTER Polysil TG 500.

Right after that, another slurry coat is applied (consumption approx. 1,0 kg/m²) which is then immediately hardened with KÖSTER Polysil TG 500 (consumption approx. 100 – max. 130 g/m²).

After completely curing the surface will be resistant to wastewater with ph levels down to 5.

Application 3: Surface protection :

To strengthen and improve the chemical and mechanical resistance of mineral building materials, KÖSTER Polysil TG 500 is sprayed, rolled or brushed onto the substrate (consumption approx. 130 – max. 200 g/m²). The protective coating is fully resilient after approx 16 hours.

Over-painting – application of the next layer

- after 30 minutes for cementitious materials
- after min 24 hours for acrylic or silicate paints

Consumption:

Against salt efflorescence (1 layers) 100 – 125 gr / m²

For chemical resistance (2 layers) 200 – 250 gr / m²

Packaging:

KÖSTER Polysil TG 500 5 kg container



Cleaning of Tools:

Clean tools with water while material is still wet.

Notes:

Do not apply below +5°C or if temperatures below +5°C are expected within 24 hours. Do not apply on wet or frozen surfaces. Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test.

Storage:


Containers must be stored at +5°C to +30°C in tightly sealed containers. Keep out of direct sunlight, protect from water and freezing.

Shelf Life:

12 months.

Caution:

Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye / face protection. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

	
KÖSTER YAPI KİMYASALLARI İNŞ. SAN. ve TİC. A.Ş. GEBKİM Kimya İhtisas OSB Atatürk Bulvarı No: 6 41455 DİLOVASI / KOCAELİ 16	
DOP NO: 005 EN 1504-2 KÖSTER Polysil TG 500 Deeply penetrating primer and liquid hardener for sealing slurries Coating application (C) 1.2	
Capillary absorption and permeability to water	W < 1,0 kg/m ² .h 0,5
Depth to penetration	Class I : < 10 mm
Response to Fire	E
Dangerous Materials	Materials 5.4 appropriate

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