

Smaltover

TECHNICAL DATA SHEET



Description of the product

SMALTOVER is a 2 component polyurethane-based varnish for stone surfaces. It is recommended especially for coating stone floors, because it offers **exceptional resistance** to stepping and scratching. It livens up the stone surfaces, retains its gloss and protects them from frequent washing and adverse weather conditions.

Recommended uses

It protects and decorates exterior and interior surfaces of stone, marble, bricks, etc.

Technical characteristics

Resin: Polyurethane

Density (A+B): 1.05±0.02 gr/ml

(EN ISO 2811.01, 20°C)

Production Viscosity (A+B): 55±10 sec

(DIN 53211/2 mm, 20°C)

Solids b.w. (A+B): 55±2.5%

(EN ISO 3251)

Solids b.v. (A+B): 48±3%

(ISO 3233)

Flash point: A: 39±2°C, B: 42±2°C

(EN ISO 1523)

VOC (Volatile Organic Compounds): **SMALTOVER** belongs to the category A/j SB (Two-pack reactive performance coatings for specific end use). EU Limit Value: 500 g/l. The ready to use product contains max. 499 g/l.

Shades

Transparent.

Properties

Gloss 20°: 89±2

(EN ISO 2813)

Scratch test: 45±5 µm: 13±2 Nt, after 24 hours
100±5 µm: > 20 Nt, after 7 days

(EN ISO 1518)

Adhesion (Pull off):

3.5±0.5 Nt/mm² (A)

(EN ISO 4624)

8.5±0.5 Nt/mm² (A)

Resistance to water and alkalis:

No visible defaults for over 24 hours

(ASTM D 1647)

Resistance to light: Does not yellow and maintains its gloss

(ASTM D 1647)

Exposure to fluorescent UV & water: 1000 hours on oregon

Cracking: 1(SO) a

(EN ISO 11507)

Flaking: 0 (SO) 0

Coefficient of friction: 0.61±0.1 (using sole leather)

(EN ISO 8295)

Spreading rate

Dry film thickness per coat: 45±5 µm.

Recommended total dry film thickness: 100±5 µm.

Spreading rate: 10±1 m²/Kg, per coat.

Application instructions

Before the application the surface is thoroughly cleaned removing fractions of stone and dust. If the surface is washed it is allowed to dry. Before the application **SMALTOVER** must be prepared: Component B is added to Component A slowly and with constant stirring.

SMALTOVER is applied in 2 coats. The 2nd coat is applied 24 hours after the application of the previous coat.

Mixing ratio: 2A:1B b.w.

Pot life: 5±½ hours (20°C), 2½±½ hours (30°C) (EN ISO 9514).

Application method: Brush, felt roller.

Thinning: No thinning is necessary.

Tools are cleaned immediately after the application with **CHROTEX Solvent S-1701**, soap and water.

Drying time

Dust Free: 60±10 minutes (ASTM D 1640).

Dry Through: 6±½ hours

Recoating time: After 24 hours.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Packaging

Component A is available in 0.66 Kg cans. Component B is available in 0.33 Kg cans.

Storage

1 year for Components A & B, provided the cans remain closed and in normal storing conditions. Component B is sensitive to humidity.

Health and safety

Please refer to the labeling mentioned on the can. In case more information is needed refer to the Material Safety Data Sheet.

Notes

- Floors can be used 48 hours after the application.
- Application should be avoided when the humidity is high.
- For the better protection of exterior surfaces that sustain mechanical stress it is recommended to apply 3 coats of **SMALTOVER**.

*Issued: March 2021
This issue replaces all previous ones*

