

TI 120

Technical Information Surface Protection Linings
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STEULERBOND BE

Silane based adhesion primer between smooth concrete substrate and epoxy resin primer.

Base

Silane

Material Group

Primers

Description and use

Linking agent for smooth, ground concrete surfaces and subsequent epoxy resin primer. This silane primer enables a molecular adhesion bridge between inorganic substrates (concrete) and organic polymers (epoxy resin primer).

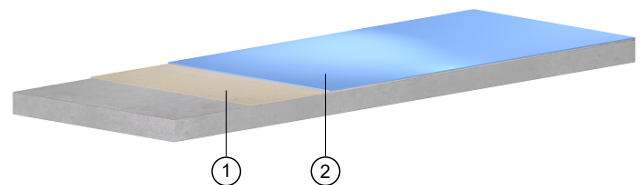
Properties

- Emulsifiable with water
- Very good adhesion to concrete
- Particularly low emissions
- Low odour
- Free from solvents

System Design

Concrete, smooth

1. Steulerbond BE
2. Epoxy resin primer
e.g. Alkadur HR Primer



Graphic not true to scale

Physical Data

Property [unit], Test method	Value
Adhesive strength to concrete / screed [MPa], DIN EN ISO 4624	> Inherent tensile strength
Density [g/cm ³], DIN EN ISO 1183-1, ASTM D 792	1.07

Substrate

Requirements

Application temperature	approx. 10–30 °C
Dew point distance	> 3 K
Dew point distance from 70% air humidity	> 5 K

Optimal temperature is 20 °C. Higher and lower temperatures influence the pot life and consistency of the mixtures.

Avoid draughts and solar radiation.

Concrete

Refer to DIN EN 14879-1 as well as to STEULER-KCH-Formsheet 010.

To achieve sufficient adhesive tensile strength, the substrate must generally be pre-treated in such a way that it is free of cement slurry, cement skin, loose and friable parts, structural defects and separating substances.

The residual moisture of cementitious substrates must not exceed 4 %.

The condition of the substrate must be documented by STEULER-KCH-Test-Record 006 (concrete).

Moisture

During application, the substrate must be kept dry. No moisture (condensate, mist, etc.) must get onto the material.

Packaging / Shelf life

All components must be stored and transported dry. The minimum shelf life applies to a storage temperature of 20 °C, unless otherwise specified. Higher temperatures reduce, lower temperatures increase the minimum shelf life.

Component	Item number	Package	Content	Shelf life
Steulerbond-BE-Solution	5035660044	Bottle	0.5 kg	24 Months
Steulerbond-BE-Solution	5035660003	Canister	5 kg	24 Months

For handling, transport and storage observe the relevant safety data sheets.

Mixing Ratio / Consumption

Steulerbond BE

Component	Mix kg	Consumption kg/m ²
Steulerbond-BE-Solution	0.50 ^[1]	0.002
Tap water	24.50	0.098
Total	25.00	0.100
Area per mix		≈ 250 m ²
Application steps		1

Pot Life

Pot lives depend on the temperature and are (approx.):

Temperature	Pot life
20 °C	8 h

End of pot life is not visible. Do not use mixed material after the pot life has expired.

^[1] pre-dosed package

Waiting and curing times

The minimum waiting time until further processing and the maximum waiting time between application steps are as follows (approx.):

Temperature	Until further processing	Maximum waiting time
20 °C	3 h	24 h

Safety and Disposal

The following points should be observed:

- Sufficient ventilation and venting (especially in pits and tanks)
- No smoking and no fire
- Safety Data Sheets
- Observe hazard warnings and safety instructions on labels
- Wear required personal protective equipment (avoid skin contact with materials)
- Clean and protect hands with skin protection soap (no solvents!) and skin protection cream
- Wear a dust mask when grinding (e.g. for repairs)
- Operating instructions as per § 14 of GefahrstoffV (Toxic Substances Act) and TRGS 507 (Technical regulations for Hazardous Substances - Germany)
- Accident prevention regulations by the Liability Insurance Association for the Chemical Industries (Germany)
- Avoid direct contact of the materials with the flame, especially during welding work (welding beads) on site

Preferably consume residual quantities. Do not pour into a spout or dustbin! Collect separately for disposal in durable, lockable and labelled containers.

Cleaning of Equipment

Tools that are soiled with uncured materials can be cleaned with Steuler-Universal-Cleaner. Only clean in well ventilated areas.

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This issue replaces all previous versions.