



**Single-component waterborne high-performance surface improvement based on silicate high-performance polymers for improving the surface quality with consolidating effect on cementitious/mineral screed and concrete substrates.**

### DESCRIPTION

Poly-Sil 10 is a single-component composite binder with a consolidating effect, which significantly improves the surface quality of absorbent, mineral substrates such as screed and concrete through a chemical reaction. With its water-like viscosity, the material can penetrate deep into the substrate.

### APPLICATION AREA

- Poly-Sil 10 is to be applied on old/dry and medium to highly absorbent screed and concrete substrates
- For improving/stabilizing the surface quality of subfloor screeds for subsequent levelling compounds and top flooring
- For subsequent e-4 high-performance bonding agent (bonding bridge) for bonding new screed to old screed. Due to the reduced and controlled absorbency of the mineral substrate (after application of Poly-Sil 10), even solidification is achieved and avoids a too rapid drying of the previously applied e-4 high-performance bonding bridge. Only suitable for medium to highly absorbent substrates

### PROPERTIES

- Reduces the absorbency of screed and concrete substrates
- Consolidates cementitious/mineral substrates
- VOC-free
- Ready for use - no mixing necessary, since single-component
- Waterproof and vapor permeable after curing

### SUBSTRATE PREPARATION

- The substrate must be prepared pursuant to the common standards and the state of technology. It must be capable of bearing loads, free of oil and grease as well as dust and separating agents
- The (cement) laitance must be removed by suitable methods before application

### PROCESSING INFORMATION

- Apply Poly-Sil 10 evenly to the floor (e. g. using a waxer or paint roller), avoiding the formation of puddles. Allow the applied material to dry for at least 12 hours, ensure sufficient air exchange during drying!
- Before further work, the material must be completely dry
- Avoid contact with alkali-sensitive materials (e. g. aluminum, copper)
- For subsequent flooring work, only use materials (adhesives) for slightly to non-absorbent substrates.  
The adhesion of subsequent materials (e. g. adhesives) strongly depends on the substrate and the roughness of the surface and must be checked in advance in each individual case
- Due to the strong differences between the various screeds, the absorption behavior and a wide variety of adhesives in the construction industry, the suitability should be tested by trial areas to avoid uncertainties in the application
- Not suitable for screeds based on synthetic resins, mastic asphalt and magnesia
- Consumption: 0.1 - 0.3 kg per m<sup>2</sup> (depending on the substrate)
- pH-value: approx. 12

### SAFETY INFORMATION

The material is alkaline. In case of eye contact, rinse immediately with plenty of water! Use necessary protective equipment (safety goggles and suitable gloves).

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**Color:** white  
**Form:** liquid  
**Form of delivery:** Canister 20 kg net

**Self life:** Protected from sunlight and frost in the original containers – can be stored for at least 12 months  
**Processing temperature:** from +5 °C to +30 °C