

Silicate Technology



Maleki[®]-SWP 270
| silicate waterproofing

Silicate Technology

| Innovative solutions for sustainable construction

Silicates are an extremely durable and resistant material. The Silicate Technology leverages the superior characteristics of silicates for use in industry. The unique one-component and mineral binder system penetrates deep into the substrate and reacts with the constituents of cement to form a strong, highly adhesive silicate structure. It provides an outstanding chemical resistance and permanent protection against water penetration and pollutants. Above all, the silicate binder system is environmentally friendly and VOC-free. No special precaution is required during application. Therefore silicate products are excellently positioned to replace pollutive multi-component epoxy products.

No other material has such outstanding properties!

Applications

The silicate technology can be used to protect alkaline mineral-based substrates such as:

- Waste water channels
- Sewage/slurry tanks
- Areas exposed to aggressive chemicals
- Breweries and dairies
- Industrial/agricultural facilities
- Pipelines
- Areas prone to corrosion



Maleki®-SWP 270

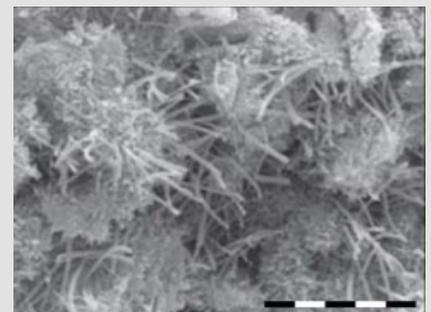
| Silicate waterproofing



Maleki®-SWP 270 is a silicate waterproofing product with enhanced chemical resistance. It is formulated to withstand sulfate pollution and is particularly suitable for wastewater and biogas plants. Maleki®-SWP 270 may even be applied on wet surfaces and can be exposed to water just a few hours after application. It can be mixed and applied by hand or with a machine.

Outstanding features:

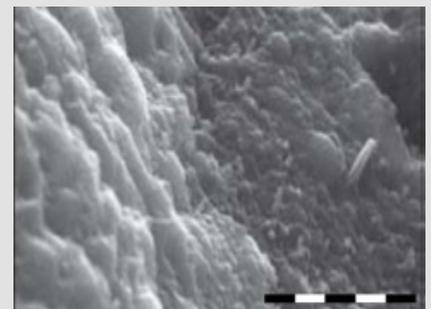
- Enhanced resistance to acids and alkalis (pH 0 - 14)
- Especially resistant to sulfates
- Extremely adhesive bond to the substrate
- Suitable for use on damp surfaces
- Mineral
- Can be exposed to water after one day
- Environmentally friendly



Typical cement matrix (23 μm) *

Additional features:

- Ecological alternative to epoxy products
- 1.5 bar water impermeability
- No efflorescence
- Protection against carbonation
- Allows diffusion of water vapor
- Crack and shrinkage-free curing
- Solvent- and VOC-free
- Fast and easy processing



Silicate matrix (7 μm)

Certificates:

- Sewer structure guideline
- Acid resistance
- Drinking water suitability



Maleki-SWP® 270 on concrete

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Application Summary

Clean the substrate of loose particles and dirt before administering this product. Apply in two stages to achieve an appropriate layer thickness of. Ensure that all pores in the substrate have been covered. For the complete procedure, please refer to the technical data sheet available at www.malekigmbh.com.

Properties:

- High acid resistance
- Sulfate resistant (pH 0 – 14)
- 100% mineral
- Environmentally friendly



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