



TECHNICAL DATA SHEET

SOLGEL SC - PROTECTIVE SEALANT FOR CERAMIC GLAZES

SOLGEL SC is a water-repellent protective sealant based on sol-gel technology. The product contains a nanostructured and functionalized silica gel. When applied to the surface, the applied liquid forms a thin, colorless, transparent, substrate-compatible layer of amorphous silica that can bind to glassy substrates and seal micro-cracks (craquelure), waterproofing the ceramic mixture and preventing the penetration of dirt, impurities, salts and biodeteriogens.

APPLICATION

Preparation of substrates.

Remove dirt, dusty material and foreign surface deposits from the surface to be treated. Apply the product to the dry surface.

Dilution

The product is ready to use and should not be diluted.

Method of use.

Spray or apply by brush to the surface to be treated. Spread the product with a soft cloth (cotton or microfiber) until the surface is dry and uniform. Proceed by small areas until the entire surface to be treated is covered.

CAUTION: Fast-setting product. Once applied by brush or spray on the surface, the product should be spread immediately.

Yield/consumption.

The product has an approximate yield of 50 square meters/liter. Values may vary depending on the porosity and absorption of the surface.

Drying time

30 minutes to the touch.

Stability

The treatment is completely stable after 72 hours.

Working temperature

min. 5°C - max. 35°C.

CHEMICAL/PHYSICAL CHARACTERISTICS

Composition

The liquid formulation consists of a 10% alcohol solution of nano-structured silica functionalized with organically modified silicon alkoxides.

Appearance

Liquid, colorless, transparent.

Relative density

0.822 g/cm³

Drying

At room temperature.

Flash point

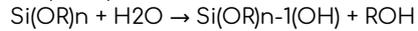
<19°C



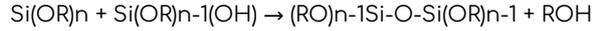
Reactions Involved

The liquid formulation vitrifies on the treated surface through two reactions:

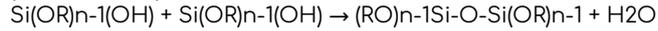
1. Hydrolysis



2. Condensation



(dealcolation)



(dehydration)

ADDITIONAL NOTES AND TIPS

Cleaning of application tools

After using the product, it is recommended that the tools used for application be cleaned with alcohol (ethyl or isopropyl).

Storage

Store in tightly closed container, away from heat sources, in a cool, dry place.

If stored properly, the product has a shelf life of 24 months.

Safety

The product is flammable.

Other advice.

Alcohol-based, quick-setting product: avoid using the formulation at temperatures above 35 °C. Carry out preliminary tests before treating the entire surface.

Notes

The above data and information are taken from our precise studies and experience. However, we cannot assume any responsibility in a general sense since product uses and application methods are beyond our control. We also reserve the right to make any changes we deem advisable for the improvement of the product or to adapt it to new regulations pertaining to safety, as well as to modify the packaging. In any case, we recommend that you want to adjust the application of our products according to the nature and conditions of the substrate to be treated by examining the suitability of the product through sample tests. Our technical department is at your complete disposal for any clarifications.