

# SILICEOUS IMPREGNATION

## SEAL SI100 SILICEOUS IMPREGNATION

### TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Test acc. to DVGW Technical Rules, Work Sheet W 347
- › Company certification acc. to DIN EN ISO 9001:2015

### PROPERTIES

- › Permanent surface protection against aggressive media such as acids and alkalis
- › Protection from carbonation
- › Sealing against dampness on walls
- › Strengthens the substrate, closes the pores and with the silicate structure, it increases the chemical resistance
- › For sealing off against liquids such as groundwater, salt water, acids, waste water and other chemicals
- › For the protection and repair of fresh water reservoirs, sewage plants and sewage pipes
- › In the event of cracking, protection from penetration of water
- › Protection from blooming
- › Due to nano technology it penetrates deep into the substrate
- › Open to water vapour diffusion
- › Heat resistant
- › Low viscosity, non-odorous
- › Ecological

### AREAS OF APPLICATION

- › Suitable for concrete, façades, walls, screeds, cellars, horizontal barriers, pipes as well as any old and new cementitious substrates
- › Even applicable with a subsequent protective coating of the surface
- › Areas, which are exposed to a high chemical operational demand and areas that are exposed to salt water
- › Drinking water approved acc. to DVGW Work Sheet W 347

## TECHNICAL DATA

TYPE	SEAL SI100	
Basic	inorganic material	
Solvents	none	
Colour	transparent	
Consistency	liquid	
Viscosity	mPa · s	< 100
Max. permissible atmospheric humidity	max. 80 % r. F.	
pH Wert	11.9	
Required number of applications:	at least 2 applications	
Application	Brush/Roll/Sprayer	
Density approx.	g/cm <sup>3</sup>	1.1
Consumption approx. (depending on substrate)	g/m <sup>2</sup>	400 - 800
Air and substrate temperature	+5 °C max. +55 °C	

**Storage:** 24 months. Cool, dry, free from frost. Unopened in its original container.

**Delivery form:** 5 kg canister (Special package sizes available upon request)

## PROCESSING

### SUBSTRATE PREPARATION:

The substrate should be dry and free from dust. Loose parts, oil, fats and other impurities have to be removed. Prior to the treatment, cretaceous and sandy particles have to be removed with e.g. a powerful industrial vacuum cleaner. Plaster and other soft coatings have to be removed.

### APPLICATION:

The undiluted **SEAL SI 100** is sprayed onto absorbent substrates or applied with a brush or a roll covering the whole surface. Apply at least 2 or 3 times. Each application has to be fully absorbed. Repeat the application until the substrate is completely saturated. After the treatment, the surface has to be protected from rain and humidity for at least 24 hours and during this time should not be coated or treated otherwise.

### CAUTION:

If **SEAL SI100** is processed in combination with the **TOP SEAL SV100**, first of all **SEAL SI100** has to be applied. After a sufficient time for drying (the surface must no longer be wet), **TOP SEAL SV100** may be applied on top. For information on the processing of **TOP SEAL SV100** please refer to the technical data sheet on **TOP SEAL SV100**.

### Tools and cleaning:

Brush (small or wide), surface roller or sprayer. At each interruption of the work, the tools have to be cleaned with water. The tools have to be dried prior to the further usage.

### Note:

On decorative visual surfaces at least on the day before the application at a non-critical location a test on a small area should be applied. If the substrate is non-absorbent, no application must take place.

Please protect glass, tiles, clinker and similar surfaces from splashes of the material. Aluminium should not get into contact with the product. Soiling should be washed off with water immediately.

Care should be taken that prior to the application, no **SEAL SV100** is getting on the surface such as e.g. by dripping tools or footwear, under which **SEAL SV100** has built up. Otherwise, at those places, that have been netted prior to the application, blooming can occur.

In addition, during the application, clean footwear should be worn to avoid soiling of the readily applied substrate.