

# ROCK GARD 70S

## SILOXANE BASED WATER REPELLENT IMPREGNATION

### DESCRIPTION

Rock Gard 70S is a one-part water repellent impregnation for absorbent cementitious substrates. It penetrates well into the open pores of the substrate, providing durable water repellency, while still allowing water vapour diffusion in both directions.

Rock Gard 70S complies with the requirements of EN 1504-2 for hydrophobic Impregnation (penetration depth class I).

### USES

Rock Gard 70S is used as water repellent and colorless protective surface treatment on absorbent exposed materials such as concrete, cementitious rendering, concrete tiles, fiber cement, brickwork (clay and lime sand, non-vitrified), natural stone. Rock Gard 70S can also be used as hydrophobic primer under solvent based or emulsion protective coating

Rock Gard 70S is used as water-repellent impregnation (hydrophobic treatment) for absorbent substrates such as concrete in civil engineering or building concrete structures

Suitable for protection against ingress (Principle 1, method 1.1 of EN 1504-9),

•Suitable for moisture control (Principle 2, method 2.1 of EN 1504-9)

•Suitable for increasing the resistivity (Principle 8, method 8.1 of EN 1504-9)

### CHARACTERISTICS / ADVANTAGES

- Reduction of capillary water absorption.
  - Reduces efflorescence.
  - Reduces dirt penetration into the pores.
  - Improves thermal insulation.
- Can be over coated with solvent based and dispersion coating.
- Higher durability and resistance than conventional silicone based treatments.
  - Does usually not change the appearance of the substrate.
  - Reduces chloride ion ingress and movement.
  - Does not act as a vapour barrier.

### APPROVALS / STANDARDS

Conformity to the requirements of the EN 1504-2

- Result: VOC Content < 930 g/L

### PRODUCT INFORMATION

**Chemical Base** Silanes/Siloxanes blend in organic solvent.

**Packaging** 17 kg Jerkin, 200 Kg drums

**Appearance / Color** Colorless liquid

**Shelf Life** 12 months from date of production if stored in unopened, undamaged and original sealed packaging.

**Storage Conditions** Store in dry and cool conditions. Protect from moisture.

**Density** ~ 0.800 kg/l (at +20 °C)

**Flash Point** ~ 36 - 40°C

### SYSTEM INFORMATION

**System Structure** 1-2 x Rock Gard 70S .

### APPLICATION INFORMATION

**Consumption** ~ 0.300-0.500 kg/m<sup>2</sup> (0.375-0.625 l/m<sup>2</sup>) per coat for normally absorbent substrate. In order to ensure durability, a minimum of 2 coats must be applied.

**Ambient Air Temperature** +5 °C min. / +30 °C max.

**Substrate Temperature** +5 °C min. / +30 °C max.

**Substrate Moisture Content** <5-6% when measured with Tramex method

**Waiting Time / Over coating** Can be over coated with water/solvent based polymer paints - contact the paint manufacturer for details. When over coating with Rock Gard Emulsion or solvent based coating, wait at least 5 hours after the hydrophobic impregnation.

**Curing Treatment** Rock Gard 70S does not require any special curing but must be protected from rain for at least 3 hours at +20 °C.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Free of dust, oil, efflorescence and existing paint coatings.

Cracks in concrete of more than 200 µm must be repaired

prior to application of the hydrophobic treatment.

Cleaning is best achieved by brushing with suitable detergents or by light blast cleaning or steam cleaning etc.

Best results are obtained on dry, very absorbent substrates.

The substrate must look dry with no damp patches.

### MIXING

Rock Gard 70S is supplied ready for use and should not be thinned.

### APPLICATION

Rock Gard 70S is applied using low pressure spray, brush or roller, working from bottom up taking care not to let the product run. Apply subsequent coats "wet on wet".

### CLEANING OF TOOLS

Clean all tools and application equipment with white spirit immediately after use.

Hardened / cured material can only be mechanically removed.

## LIMITATIONS

Minimum age of concrete or mortar: at least 4 weeks.

▪Cannot be over coated with lime wash or cement paint.

▪If there are strict aesthetic requirements (often when used on natural stone), it is recommended to perform preliminary tests as on some stones a slight darkening of the surfaces may result.

▪Rock Gard 70S is not intended for waterproofing under hydrostatic pressure, in permanent contact with water, or for below grade waterproofing.

▪Rock Gard 70S is not intended to seal visible cracks from moisture ingress.

▪Building components not to be coated (e.g. aluminum frames, windows etc.) need to be protected from contact with Rock Gard 70S. In case of splashes, clean immediately using an additional solvent if necessary.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.



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# CONSTRUCTION