

ROCK GARD 70W

Alkyl-alkoxy Siloxane Micro-Emulsion Water Repellent Impregnation

DESCRIPTION

Rock Gard 70W is a water dilutable reactive alkylalkoxy siloxane based impregnation, supplied as a micro-emulsion concentrate.

USES

As an impregnation for mineral substrates including concrete and cementitious render, natural and reconstituted stone, aerated concrete, brickwork (non vitrified brick), fiber cement, mineral paint coatings etc. against driving rain and water ingress.

CHARACTERISTICS / ADVANTAGES

- Excellent penetration.
 - Economic and easy to use.
- Reduces capillary water absorption, protection against driving rain and water ingress on vertical areas.
- Reduces absorption of water borne contaminants (e.g. de-icing salts, chlorides,,etc.).
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 - No change in water vapour permeability.
 - Non film forming
 - Water dilutable
- Low packaging waste / disposal as supplied as a concentrate

APPROVALS / STANDARDS

Conforms to the requirements of EMPA No. 147 006 -C
(resistance to freeze-thaw cycles and de-icing salts)
and LPM A-13719-4 (water absorption, diffusion, alkali resistance).

PRODUCT INFORMATION

Chemical Base Water dilutable siloxane
Packaging 5 Kg and 20 Kg
Appearance / Colour Yellowish liquid
Shelf Life 12 months from date of production if stored in undamaged and unopened, original Life
Storage Conditions sealed packaging, in cool and dry conditions.
Density (at +20°C) ~ 1.000 kg/l
Flash Point ~ 27°C

TECHNICAL INFORMATION

Drying Rate Coefficient ▪ Cleaning is best achieved by brushing with suitable detergents or by light.
▪ blastcleaning or steam cleaning etc.
▪ Best results are obtained on dry, very absorbent substrates.
▪ The substrate must look dry with no damp patches.

SYSTEM INFORMATION

System Structure 2 -3 x Rock Gard 70W.

APPLICATION INFORMATION

Consumption Dependent on the absorbency of the substrate and the required penetration depth, ~ 150 g/m² (diluted) per coat. Apply 2 -3 coats "wet on wet".

Ambient Air Temperature +8°C min. / +30°C max.

Substrate Temperature +8°C min. / +30°C max.

Substrate Moisture Content Substrate Humidity 5% max.

Waiting Time / Over coating Can be over coated with water / solvent based polymer paints – contact the paint Overcoat ability manufacturer for details.

▪ Rock Gard 70W can be used as a water based primer under Rock Gard or Emulsion or solvent based coating. Penetration of water is thus prevented even if the top coat is damaged.
▪ Waiting time: minimum 5 hours, maximum 1 week.

Curing Treatment Rock Gard 70W 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, dirt, oil, efflorescence and existing paint coatings.

Cracks in concrete of more than 200 microns must be repaired prior to application of the hydrophobic treatment.

MIXING

Thinning:

Rock Gard 70W is thinned with clean water at the rate of 1: 7 and then thoroughly stirred.

APPLICATION

Rock Gard 70W is applied using low pressure spray, brush or roller, in a single pass, working from top to bottom taking care not to let the product run.

Apply subsequent coats "wet on wet".

Pot Life

Only thin as much material as can be used in one working day.

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use.

Hardened / cured material can only be mechanically removed.

LIMITATIONS

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

Building components (e.g. window frames) which still need to be painted must be protected from contact with Rock Gard 70W.

Test on a sample surface before use.

Cannot be over coated with lime wash or cement paint.

The water repellent effect is not fully effective on horizontal surfaces.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Transport

Non-hazardous

Safety Precautions

Product contains volatile, flammable liquids, observe relevant regulations concerning health and safety at work. Keep away from ignition sources, refrain from smoking.

Use only in well ventilated spaces. Risk of serious damage to eyes.

Wear protective goggles and gloves made of appropriate plastic material.

Toxicity

Non-Toxic

ECOLOGY, HEALTH AND SAFETY**Ecology**

Must be disposed of as special waste according to local requirements.

Residues of material must be removed according to local regulations.

Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.



Al-Obour Buildings - Salah Salem Road - Nasr City - Cairo - Egypt.
10th Of Ramadan City.



info@CityChem.net



@City_Chem



City Chem



+202 240 456 35



+2010 277 810 11



+2010 672 213 44

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CONSTRUCTION