

# REPEL SL

## Silicate Based Water Repellent Penetrative Sealer

### Description:

REPEL SL is a single component colorless impregnating product, composed of silicate resins dissolved in water. When applied on new or existing concrete or masonry it penetrates deeply and provides the surface with maximum protection against water penetration, chloride ion attack and weathering effects.

REPEL SL cures into a clear non-film forming penetrating crystalline product resistant to ultra violet rays. It withstands sunlight and allows surfaces to breathe. It is an ideal application as an invisible protective treatment, for concrete structure, cement plasters, bricks, light weight concrete, not enamelled ceramic elements, porous natural stones, asbestos cement.

### Applications:

- Invisible protective treatment, for concrete structure, cement plasters, bricks, light weight concrete, porous natural stones, asbestos cement, etc.
- Protection against rain water infiltration.
- Protection against the salt effect for buildings close to the beach.
- Protection against weathering effects including acid rain.
- Maintenance of facades without altering colors and features.
- Anti-carbonation sealer at car park, bridges.
- Provides protection against the carbonation of quarry faced concrete.

### Advantages:

- High penetrating efficiency, crystallization occurs inside substrate.
- Allows the substrate to breathe, does not hold moisture.
- Prevents carbon dioxide and chlorine ingress.

- Environmentally friendly.
- Resistant to UV, withstands sunlight without yellowing.
- Non-film forming, does not deteriorate with ageing.
- Ease of application, applied manually or by a manual spray pump.
- Creates a self-washable surface with minor dirt settlement.

### Instructions for Use:

#### Surface Preparation:

The surface to receive application must be clean, solid, free from grease, dry to guarantee maximum penetration. All necessary repairs or crack filling should be completed before starts of application.

Surfaces with salty efflorescence must be cleaned mechanically or rinsed with water, allow surface to dry, before proceeding with the application.

All cement supports must be allowed to totally cure before being impregnated with the product.

#### Mixing:

Product is ready to use directly.

#### Application:

REPEL SL must penetrates deep enough for greatest protection. To determine the ability of surface absorption, apply on a smaller area first and observe if any excess liquid residue on surface that indicates improper penetration. In spite that one coat application will be sufficient, it is recommended to apply two coats to guarantee complete deep protection especially for porous surfaces.

REPEL SL is applied directly to the substrate with a brush, roller, or spray machine (which is recommended for large areas). The best application practice is to perform wet to wet application. This

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can be achieved by applying a sufficient coat of REPEL SL to ensure proper coverage with the first coat. Then apply the second coat onto the first coat without waiting to dry (wet on wet).

In order to check that the surface is saturated, spray little water to the surface. The formation of product tear drops on the surface indicates that the surface does not accept any more coating and it had reached a full saturation.

If applied in a correct manner, REPEL SL can maintain the water repellency feature for periods up to 10 years.

## Standards:

REPEL SL conforms to:

- ASTM 1202

TECHNICAL PROPERTIES	
Color	: Transparent Liquid
Density	: 1.02 Kg./Lt.
Efficiency	: >90%
Drying Time	: 6 to 8 hours
Chloride Permeability	: Weak
Flammability	: Non-flammable
Harmfulness EEC 88/379	: Harmful for contact
Temp. of application	: from +5°C to +40°C
Rapid Chloride Perm.	: Very low

## Packaging:

REPEL SL is supplied in 20 liter jerrycans.

## Coverage:

REPEL SL coverage rate 5.0-7.0 square meters per liter dependent highly on surface type and porosity, testing the consumption rate by a sample application is highly recommended.

## Storage Conditions:

Store in original packing in dry conditions away from direct sunlight.

## Cleaning:

Clean all tools with water prior to full drying of product.

## Shelf Life:

REPEL SL can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

## Remarks:

- Good ventilation must be provided during application and curing.
- It should not be applied in outdoor applications during rainy weather or if rain is expected before complete curing can take place.
- Normally, the surface will become water resistant within 4 – 8 hours, but in cloudy, damp, cool or humid conditions, curing can take longer.
- Spray application should be performed only with low pressure spray units to prevent excessive misting of the product.
- If spray application is used, a good painter's mask should be worn as a protective measure. Exposed food stuffs or other items which might be contaminated should be totally sealed or removed from the area.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of product.
- Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company does not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

