

# REPEL AR

## Acrylic Based Water Repellent Sealer

### Description:

REPEL AR is a single component water based acrylic sealer. It is used for applications on new or existing concrete or masonry for protection against water penetration, chloride ion attack and weathering effects. REPEL AR when cures it becomes a clear transparent medium gloss film with high abrasion and UV resistance features. It also acts as a stain resistance and protects effectively the surface from moisture penetration, dirt and dust.

REPEL AR can be applied to concrete structure, cement plasters, bricks, light weight concrete, porous natural stones, and natural stone facades

### Applications:

REPEL AR used as a water sealer at:

- Building facades, car parks, bridges.
- As a sealer on EIFS system.
- As a concrete sealer on driveways, industrial floors, swimming pools and loading docks.
- Natural stone facades and exposed aggregates for villas and buildings.
- Protection against oil, cleaning agent, salt effects
- Protection against weathering and rain.
- Sealer and top coat for stained and stamped concrete after full curing.
- Maintenance of facades without altering colors and features (but wet look medium sheen effect is expected).
- Primer for acrylic topping (anti-carbonation coatings or weather shield coatings) for porous surfaces.

### Advantages:

- High adhesion and coverage performance.
- Prevents carbon dioxide and chlorine ingress.

- Environmentally friendly, water based vapour barrier and protective sealer
- Resistant to UV, withstands sun light without yellowing.
- Integral film, does not deteriorate with freeze/thaw cycles
- Can be applied to colored concrete but mottling (streaking or spotting) may occur. Also wet look effect will show.
- Ease of application, applied manually or by a manual spray pump
- Improves the surface resistance against rain, sun, oil, air pollution, grease, salts.

### Instructions for Use:

#### Surface Preparation:

The surface of the concrete or plaster must be clean, solid, free from grease, and totally dry to guarantee maximum penetration. Oil or grease stains must be completely removed. All necessary repairs or crack filling should be completed before start of application.

Surfaces with salty efflorescence must be cleaned mechanically or rinsed with water. Allow surface to totally dries, before proceeding with the application.

New concrete must be cured before applying REPEL AR. All concrete curing compound must be mechanically removed, along with any foreign material.

#### Mixing:

Product is ready to use directly. It does not require thinning or other special preparations prior to application. It does, however, require thorough stirring before application and periodic agitation during prolonged applications.

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## Application:

REPEL AR must penetrate deep enough for greatest protection and to prevent sticky surfaces. To determine the ability to surface penetrate, apply on residue on surface which 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 AR 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 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).

## Standards:

REPEL AR conforms to:

- ASTM C309, Type 1, Classes A & B, ASTM C 1315, Type 1, Class A, ASTM D2697, ASTM D 70
- AASHTO M 148, Type 1, Classes A & B

TECHNICAL PROPERTIES	
Color	: Milky Liquid
Density	: 1.05 Kg. / Lt.
Drying Time	: 6 hours
Chloride Permeability	: Weak
Flammability	: Non-flammable
Touch dry at 25°C	: 60 minutes
Drying time	: 4-8 hours
Solid Contents	: 30%
Flash point	: NA
Resistance to water	: Very Good
Service temperature	: 10°C to 60°C

## Packaging:

REPEL AR is supplied in 20 liter jenkins and 200 liters drums.

## Storage Conditions:

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

## Coverage:

REPEL AR coverage rate 7.0-9.0 square meters per liter per coat dependent highly on surface type and porosity. Testing the consumption rate by a sample application is highly recommended.

## Cleaning:

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

## Shelf Life:

REPEL AR 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 do 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.

