



# AQUA-REPEL

## Water repellent, low gloss sealer for concrete, masonry, brick and stone

### Technical Data Sheet

#### **DESCRIPTION**

**AQUA-REPEL** is a water-based siloxane water repellent that penetrates into concrete, masonry, brick and stone construction materials and complies with BS 6477 (specification for Water-Repellants for Masonry Surfaces). It seals the substrate and provides a long lasting, water repellent coating that prevents deterioration from weathering and flaking from freeze/thaw damage. **AQUA-REPEL** is water-based, solvent free and environmentally friendly, and incorporates the latest silicone technology. This technology provides an impermeable penetrating coating, yet allows the moisture to escape. **AQUA-REPEL** can be used on both new construction and restoration. It cures very quickly (2 hours or less) to leave a completely waterproof finish.

#### **USES**

Water repellent coating for porous construction materials such as bricks, concrete, stone, concrete blocks, mortar and grout, for use in areas such as:

- ▶ Exterior building walls
- ▶ Concrete structures
- ▶ Roofs covered in clay tiles or asphalt shingles
- ▶ Horizontal surfaces such as concrete decks

#### **FEATURES**

- ▶ Water-based, ready to use
- ▶ Unaffected by salt spray
- ▶ Easy and safe to apply with pump sprayer or brush
- ▶ Excellent water repellency
- ▶ Virtually eliminates mould & fungus growth
- ▶ Breathes to allow moisture to escape
- ▶ Fast beading action
- ▶ Can be used on old or new substrates
- ▶ No SIH – easy to store and handle
- ▶ 10 year guarantee

#### **Technical Data & Physical Properties:**

Colour:	Milky white, dries clear with low gloss finish
VOC:	<10 g/l
Specific Gravity:	1.1 @ 25°C
pH:	6-8
Density:	1.01 g/cm <sup>3</sup>
Application Temperature:	+4°C
Water Repellency:	98.85% (ASTM C67)
Efflorescence Resistance:	Excellent (ASTM C67)
Freeze/Thaw:	No deterioration of treated surface – 500 cycles (ASTM C67)
Chemical Resistance:	Excellent – resistant to salts, alkali, diluted acids & fungus
Coverage Rate:	Excellent – 5m <sup>2</sup> per litre

#### **Wind-Driven Rain Resistance of Concrete Treated with AQUA-REPEL**

<u>METHOD</u>	<u>TEST</u>	<u>RESULT</u>
ASTM E514	Wind-driven rain resistance, penetration reduction	88.7%
ASTM E514	Wind-driven rain resistance, leakage reduction	100%

- ▶ Environmentally friendly – no solvent content
- ▶ Protects against damage from UV rays and weathering
- ▶ Very low VOC
- ▶ Eliminates spalling

**Method of Use:**

**Surface Preparation:** The area to be coated should be clean, sound, dry, and free of any contaminants, dust, dirt, loose particles, moss, demoulding agents or curing agents before coating with AQUA-REPEL. Any damaged areas or gaps should be repaired prior to application to achieve a smooth, even surface. Stained areas should be thoroughly cleaned, rinsed and allowed to dry before application commences.

Adjacent areas such as glass, metal, etc. should be covered to avoid over-spray.

**Application:** AQUA-REPEL comes ready to use, but stir well prior to application. Do not apply in temperatures below 4°C or to a frozen substrate. AQUA-REPEL does not require special equipment and can be applied using a conventional backpack garden type sprayer, roller or nylon brush. Start at the top and work downwards, using a fine spray/misting setting, saturating the surface, and ensuring as even a coverage as possible. Avoid applying when there is a strong wind or rain is forecast within 6-8 hours. Drying time is dependent on temperature and humidity but is approximately 2 hours or less.

**Clean Up:** Clean up wet product with soap and water. To remove dried product use mineral spirits.

**Coverage:**

The approximate coverage rate is 5m<sup>2</sup> per litre or 100m<sup>2</sup> per 20L pail. Coverage rates are dependent on the porosity of the substrate material. One coat that saturates the substrate is required.

**Limitations:**

Not suitable for substrates with very low porosity such as polished stone, marble, etc. Do not dilute or thin the product. Avoid getting spray mist on adjacent surfaces such as glass or metal. Always perform a small test sample to determine the suitability of product for intended application.

**Packaging & Storage:**

AQUA-REPEL is available in 20L pails or 200L drums. The product should be stored in cool, dry and shaded warehouses. Shelf life is 24 months when stored under

cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life. Protect the product from freezing.

**Health & Safety:**

AQUA-REPEL contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overalls, safety shoes and face mask is recommended for maximum safety, especially when spraying. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS.

**Limited Warranty:**

It is the responsibility of the customer to determine the suitability of the product for the intended purpose. Factors such as temperature, surface preparation and applicator's skill are beyond the control of the company. Therefore, the manufacturer's liability is limited to the replacement of the defective material only.

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Technical information given in this data sheet is true and exact to the best of our knowledge. The data sheets of all products are revised/updated regularly and it is important to ensure that the latest release is used for reference and recommendation. All data provided is the result of numerous tests, assessment and analysis conducted under laboratory conditions. Climatic disparity in temperature, humidity, etc., along with porosity of substrate, may alter the values.



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