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a.b.e.® Construction Chemicals

dura.®sil SH

Silane/Siloxane High Solids

WATER-REPELLANT TREATMENT FOR CONCRETE, MASONRY AND STONE

DESCRIPTION

dura.®sil SH is a single-component, clear, penetrating, breathable silane-siloxane water repellent for use on exterior above-grade concrete, brick masonry and some natural stone to provide a hydrophobic surface to the pore structure.

USES

dura.®sil SH, as a clear colourless coating, offers excellent water repellent properties to the surface/substrate, which enhances self-cleaning properties. Ideally suited for the exterior of most buildings including brickwork, cementitious finishes, natural stone and precast elements. Ideally used on reinforced concrete.

ADVANTAGES

- Effective on new or old structures.
- Inhibits penetration of soot and grime; reduces unsightly staining.
- Easily applied by brush or spray.
- Preserves natural colour and texture of treated surfaces.
- Excellent water repelling properties.
- Colourless.
- Excellent resistance to weathering.
- Water vapor permeable, breathable.
- Significantly reduces water absorption.
- No discolouring or staining.
- Reduces water and chloride intrusion.
- Reduces efflorescence.
- Allows water vapor to migrate from the structure.

SURFACE PREPARATION

All surfaces should be clean, dry and free from loose, weak or foreign substances such as oil, grease, loose particles, laitance, curing compounds, vegetation and algae growth.

Algae or similar growths must be removed using a detergent biocide type cleaner and thereafter rinsed thoroughly and allowed to dry.

PHYSICAL PROPERTIES

| | |
|---------------------|---|
| Consistency | Low viscosity liquid |
| Colour | Clear colourless |
| Relative Density | 0,81 |
| Solids (typical) | 16% v/v |
| Resistance to water | Hydrophobic properties repel rain thus inhibiting the ingress of surface water, provided there is no hydrostatic pressure. |
| Permeability | <p>– To water contaminated with chlorides, dust, soot and other material is very low. The leaching of soluble salts from brickwork and other mineral substrates causes efflorescence, also the absorption of atmospheric-borne particles by brickwork and stone often lead to surface degradation. These are all minimized.</p> <p>– Water vapor dissipates easily, allowing building surfaces and other similar substrates to 'breathe' naturally.</p> |
| Flash point | 37 °C |

COVERAGE

To obtain the full benefits of **dura.®sil SH**, it is important to adhere to the coverage rates and overcoating times:

Number of coats: 2 flood coats

Over coating time: 2 hours @ 20 °C

Coverage: 5 m²/liter/coat

Note: Coverage will vary due to wastage factors and the variation of substrate profiles and permeability.

APPLICATION

dura.®sil SH is best applied by using portable spray equipment, typically a knapsack unit or garden type spray. **dura.®sil SH** should be allowed to dry for a minimum of 2 hours (at 20 °C) before continuing.

CAUTION

dura.®sil SH should not be contaminated with water. Do not apply **dura.®sil SH** if the temperature of the substrate is below 5 °C. Ensure that all glass is adequately protected before applying **dura.®sil SH**.

CLEANING

Use **abe® super brush cleaner** immediately after use to clean tools and equipment.

Note: All tools and equipment must be dry and moisture free, contamination will impair the product's performance, i.e. ensure the spray equipment is clean and dry before filling the equipment with **dura.®sil SH**.

MODEL SPECIFICATION

Penetrating silane-siloxane treatment for protecting reinforced concrete against water and chloride ingress.

The penetrating compound will be **dura.®sil SH**, a single-component silane-siloxane liquid system that will allow moisture vapor transmission applied in accordance with the recommendations of **a.b.e.® Construction Chemicals**. The treatment will be resistant to fuels, oils and atmospheric contaminants.

PACKAGING

dura.®sil SH is supplied in 20 litre and 200 litre metal containers.

HANDLING & STORAGE

dura.®sil SH has a shelf life of 12 months if kept in a dry cool place in the original, packaging. In more extreme conditions this period might be shortened.

HEALTH AND SAFETY

dura.®sil SH is toxic and flammable. Ensure the working area is well ventilated during application and drying. Avoid flames in vicinity. Always wear gloves when working with the material and avoid excessive inhalation and skin contact. If material is splashed in the eye, wash with plenty of clean water and seek medical attention. Cured **dura.®sil SH** is inert and harmless.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavors to ensure that any advise, recommendation, specification or information is accurate and correct, the company cannot – because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied – accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advise, specification, recommendation, or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.

