



SAINT-GOBAIN

## durasil SH

Silane/Siloxane High Solids

**WATER-REPELLANT  
TREATMENT FOR CONCRETE,  
MASONRY AND STONE**

### DESCRIPTION

**durasil 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

**durasil 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
- Reduces liquid water absorption by over 94% compared to untreated concrete
- Class 1 drying rate — extremely fast drying hydrophobic treatment

### 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

#### **durasil SH complies with EN 1504-2 for hydrophobic impregnations**

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	<ul style="list-style-type: none"> <li>- 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.</li> <li>- Water vapor dissipates easily, allowing building surfaces and other similar substrates to 'breathe' naturally.</li> </ul>
Flash point	37 °C
Water Vapour Permeability (EN ISO 7783-1/2)	Free film: Sd = 2.3 m (Class I) Coated concrete: Sd = 3.0 m (Class I)
Liquid Water Permeability (EN 1062-3)	Water absorption: 0.0124 kg/m <sup>2</sup> w-value: 0.0025 kg/m <sup>2</sup> .h <sup>0-5</sup> Meets <0.1
Adhesion Strength (EN 1542)	4.40 MPa. Meets requirement.
Carbon Dioxide Permeability (EN 1062-6)	CO <sub>2</sub> diffusion resistance (Sd): 208 m. Meets ≥50 m
Abrasion Resistance (ASTM D4060)	Taber abrasion (CS17, 1kg, 1000 cycles): 142-147 mg mass loss. Meets <3000 mg
Impact Resistance (ISO 6272-1)	No failure at 1.5 m drop height (14.7 N.m) — Class I/II
Depth of Penetration (EN 1430)	>8 mm. Exceeding ≥5mm requirement.
Water Absorption & Alkali Resistance (EN 13580)	Absorption ratio 5.8-5.9% before alkali; 5.5-6.7% after alkali. Meets <7.5% and <10%
Drying Rate (EN 13579)	Coefficient 457%. Meets Class 1 >30%

## COVERAGE

To obtain the full benefits of **durasil 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 m<sup>2</sup>/ℓ/coat

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

## APPLICATION

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

## CAUTION

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

## MODEL SPECIFICATION

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

The penetrating compound will be **durasil SH**, a single-component silane-siloxane liquid system that will allow moisture vapor transmission applied in accordance with the recommendations of **a.b.e.®**

The treatment will be resistant to fuels, oils and atmospheric contaminants.

## PACKAGING

**durasil SH** is supplied in 20 litre and 200 ℓ metal containers.

## HANDLING & STORAGE

**durasil 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

**durasil 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 **durasil 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.®** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied.

## 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.®** has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.

Please consult our website for our latest datasheets.

DATE UPDATED: 27/03/2026

ISO 9001:2015 registered company  
Call: (+27) 860 223 773 | [www.abe.co.za](http://www.abe.co.za)