



Chem Coats (Pvt) Ltd.

ChemSil S

Water-repellent treatment for face brick

DESCRIPTION

ChemSil S is a single-component, clear penetrating, breathable silane-siloxane water repellent for use on exterior face brick and masonry to provide a hydrophobic surface to the pore structure.

USES

ChemSil S is a clear-coating water repellent that also enhances self-cleaning properties to substrates such as:

- General exterior water repellent
- Protection of face brick structures
- Masonry finishes.

It also minimizes the unsightly forming of efflorescence on brickwork.

FEATURES AND BENEFITS

- Effective on new or old structures
- Inhibits penetration of soot and grime; reduces unsightly staining
- Easily applied by brush or spray
- Preserves natural color and texture of treated surfaces
- Excellent water repelling properties
- Colourless
- Excellent resistance to weathering
- Water vapor permeable, breathable
- Significantly reduces water absorption
- No discoloring 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. Rinse thoroughly and allow drying.

RESISTANCE TO WATER

Hydrophobic properties repel rain thus inhibiting the ingress of surface water, provided there is no hydrostatic pressure. Permeability:

(a) To water contaminated with chlorides, dust, soot and other materials are very low. The leaching of soluble salts from brickwork and other mineral substrates causes efflorescence, also the absorption



Physical Properties

Consistency	Low viscosity liquid
Colour	Clear colorless
Relative Density	0.76
Solids (typical)	6% v/v
To obtain the full benefits of ChemSil S, it is important to adhere to the coverage rates and coating times.	
Number of coat	2 flood coats
Over coating time	2 hours @ 20°C
Coverage	5 m ² /litre

of atmospheric-borne particles by brickwork and stone often lead to surface degradation. These are all minimized.

(b) Water vapor dissipates easily, allowing building surfaces and other similar substrates to 'breathe' naturally.

COVERAGE

As cited in the table above.

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

APPLICATION

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

CAUTION

ChemSil S should not be contaminated with water. Do not apply ChemSil S if the temperature of the substrate is below 2° C. Ensure that all glass is adequately protected before applying ChemSil S.

CLEANING

Use Chem Coats super brush cleaner immediately after use to clean tools and equipment.

Note: All tools and equipment must be dry and



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moisture free, contamination will impair the product's performance, i.e. ensure the spray equipment is clean and dry before filling the equipment with **ChemSil S**.

MODEL SPECIFICATION

A single-component, clear penetrating, breathable silane siloxane water repellent for use on exterior face brick and masonry to provide a hydrophobic surface to the pore structure.

The surface protection coating will consist of **ChemSil S** with a minimum of 6% volume solids silane / siloxane content, clear liquid coating applied in two flood coats at a rate of not less than 5 m²/litre.

PACKAGING

ChemSil S is supplied in 05, 25 and 200 litre containers.

HANDLING & STORAGE

ChemSil S 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 & SAFETY

ChemSil S 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 copious quantities of clean water and seek medical attention.

Cured **ChemSil S** is inert and harmless.

FLASH POINT

ChemSil S: 36° C

IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories

we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Chem Coat's representative.

RANGE OF PRODUCTS

<u>WATERPROOFING SYSTEMS</u> <u>INDUSTRIAL FLOOR SURFACES</u> <u>PROTECTIVE COATINGS</u>	<u>PREPACKED REPAIR MORTARS</u> <u>CEMENTITIOUS & EPOXY GROUTS</u> <u>CONCRETE ADMIXTURES</u>	<u>SEALANTS</u> <u>CRACK INJECTION</u> <u>CONCRETE ADHESIVE</u>
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