

Technical Data Sheet

Protectosil® WS 808

Multifunctional aqueous solution that combines water repellency with consolidation properties when applied on mineral substrates.

PRODUCT DESCRIPTION

Oligomeric propyl silicate/silicate concentrate as water-repellent and consolidant for mineral substrates

Typical Properties

Property	Unit	Value
Active Content	wt%	>55
Appearance		Clear, colourless to slightly yellowish liquid
Density DIN 51757 (@20 °C)	g/cm ³	1.4
Flash Point DIN EN ISO 2719	°C	>95

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Protectosil® WS 808 is especially suited for

- the water repellent treatment of low-fired clay products (e.g. roofing tiles, common brick, floor tiles, terracotta) as well as various natural stones, sandstones and gypsum
- the consolidation and hydrophobation of mineral construction materials and sand
- the protection of brickwork from rising damp
- the restoration of natural stone

BENEFITS & ADVANTAGES

Protectosil® WS 808 provides

- excellent reduction of water uptake
- high penetration depths and fast curing
- a prominent and long-lasting beading effect even at very high dilutions
- water-vapor permeable and colourless protection
- significant reduction of white deposits
- high resistance to alkaline environments

DOSAGE

Protectosil® WS 808 is supplied as concentrate and to be diluted with demineralized water. The recommended dilution rate ranges from 1:10 – 1:100, the ideal dilution rate for best performance depends on the mineral substrate. When diluting Protectosil® WS 808 the product must be added into demineralized water under vigorous stirring. The amount to be applied depends to a large extent on how absorbent the substrate is and should be tested in advance. For the treatment of common brick, a dilution rate of 1:20 at a consumption rate of appr. 0,3 - 0,4 l/m² is generally recommended.

HANDLING & PROCESSING

Protectosil® WS 808 should only be applied on fully cured substrates. Protectosil® WS 808 can be applied on new and old substrates. Performance tests should be conducted 14 days after application.

The surfaces to be treated should be air-dry and clean in order to ensure deep penetration. Dust, grease, oil, overgrowth and similar have to be cleaned off before treatment. Surface cleaning methods include suitable sandblasting, high-pressure water jetting and chemical cleaning. Best performance is achieved on a dry surface.

The ideal temperature range for the application is 4 °C to 40 °C. Treated surfaces should be protected against rain after the application for at least 4 hours.

It is recommended to cover all substrates that are sensitive towards alkaline material. Substrates such as glass, wood, plastic and metal cannot be treated with Protectosil® WS 808. The formation of white deposits on these surfaces will be observed. Plants in the vicinity of the application area should be protected.

Protectosil® WS 808 should be applied in a well-vented environment. The treated product should not be covered in an air-tight plastic foil immediately after application. The treatment of pigmented surfaces with dilutions of Protectosil® WS 808 should be evaluated in advance. Generally, it is recommended to apply the diluted product on a small test patch first for a compatibility check.

SAFETY

Before considering the use of Protectosil® products please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

The Safety Data Sheet is available on our website <https://silanes.evonik.com/en> or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-Mail sds-hu@evonik.com.

PACKAGING

Protectosil® WS 808 is supplied in 35 kg PE container, 220 kg plastic lined steel drums, and 1000 kg bulk container.

STORAGE

Protectosil® WS 808 will freeze at temperatures below -40 °C. If frozen the product may be utilized after it has been allowed to warm up. This will not impair its effectiveness.

SHELF LIFE

The product has a shelf life of at least 12 months if stored in originally sealed containers.

Registration Listings

Registry	Status
Australia (AICIS)	Yes
Canada (DSL)	Yes
China (IECSC)	No
EU (REACH)	Yes
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	No
Philippines (PICCS)	No
United States of America (TSCA)	Yes

For further information
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Customer Portal



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