

# Protectosil® WS 808

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

### Registration

Protectosil® WS 808

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	No
PICCS (Philippines):	No
TSCA (USA):	No
IECSC (P.R. China):	No
ENCS (Japan):	Yes
ECL (South Korea):	No

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

- Clear, colourless to slightly yellowish liquid
- approx. 55% active ingredient
- water based, VOC free
- pH >13
- non-flammable

### Safety and Handling

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 after registration on our website [www.protectosil.com](http://www.protectosil.com) or upon request from your local representative, customer service or from Evonik Resource Efficiency GmbH, Product Safety Department, E-MAIL [sds-hu@evonik.com](mailto:sds-hu@evonik.com).

### Packaging and Storage

Protectosil® WS 808 is supplied as samples in 1 kg borosilicate glass bottles.

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

Protectosil® WS 808 has a shelf life of at least 12 months if stored in originally sealed containers.

## Properties and Use

### Protectosil® WS 808

- especially suited as water repellent for low-fired clay products (e.g. roofing tiles, common brick, floor tiles, terracotta) as well as various natural stones, sandstones and gypsum
- consolidation and hydrophobation of mineral construction materials and sand
- protects brickwork from rising damp
- suitable for the restoration of natural stone
- supplied as concentrate: to be diluted with water up to 1:100
- high penetration depth and fast curing
- excellent long-lasting beading effect even at very high dilutions
- generates water-vapour permeable, colourless treatment
- excellent reduction of water uptake and soluble salts (e.g. chlorides)
- significantly reduces the formation of white deposits on treated surfaces
- resistant against alkaline environment
- suitable as binder for silicate-based paints

Protectosil® WS 808 is intended for waterproofing of mineral substrates, in particular roofing tiles and common brick. When diluting Protectosil® WS 808 the product must be added into water under vigorous stirring. The recommended dilution rate ranges from 1:10 – 1:100, the ideal dilution rate for best performance depends on the mineral substrate.

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 is generally recommended at a consumption rate of appr. 0,3 - 0,4 l/m<sup>2</sup>.

## Application

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, etc. have to be cleaned off before treatment. Surface cleaning methods include suitable sandblasting, water blasting or washing and chemical cleaning. Best performance is achieved on a dry surface. During application the temperature of the substrate should be within the range of +4 to +40 °C. Protect against rain after application for at least 4 hours.

Protectosil® WS 808 is best applied by dipping the substrate into the solution of the product or by using low pressure pumping equipment with a wet fan type spray nozzle. The time allowed for dipping depends on how absorbent the substrate is. Contact times can range from 5 s up to several minutes. All equipment and containers must be clean and dry. After use they can be cleaned with tap water.

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.

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**Europe / Middle-East / Africa / Row**

**Evonik Resource Efficiency GmbH**

Business Line Silanes  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59 13636  
FAX +49 6181 59 713 915  
protectosil@evonik.com  
www.protectosil.com

**Asia / Pacific**

**Evonik (SEA) Pte. Ltd.**

Business Line Silanes  
3 Internatioanl Business Park  
#07-18, Nordic European Centre  
Singapore 609927  
PHONE +65 6809 6899  
FAX +65 6809 6699  
protectosil@evonik.com  
www.protectosil.com

**Asia / Pacific**

**Evonik Taiwan Ltd.**

Business Line Silanes  
Artist Construction Bldg  
9F, No. 133  
Min Sheng East Road, Sec 3  
Taipei, 105 Taiwan, R.O.C.  
Taiwan 10596  
PHONE +886 227 17 1242  
FAX +886 227 17 2106  
protectosil@evonik.com  
www.protectosil.com

**North America**

**Evonik Corporation**

Business Line Silanes  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
USA  
PHONE (TOLL FREE) +1 800 828 0919  
FAX +1 973 929 8503  
protectosil@evonik.com  
www.protectosil.com

**Asia / Pacific**

**Evonik (Shanghai) Co. Ltd.**

Business Line Silanes  
55, Chungdong Road  
Shanghai 201108  
P.R. China  
PHONE +86 21 6119 1660  
FAX +86 21 6119 1075  
protectosil@evonik.com  
www.protectosil.com

**Asia / Pacific**

**Evonik Japan Co. Ltd**

Business Line Silanes  
12th Floor Monolith Building  
2-3-1, Nishi-Shinjuku-ku  
Tokyo 163-0912  
Japan  
PHONE +81 353 23 7446  
FAX +81 353 23 7397  
protectosil@evonik.com  
www.protectosil.com

**Latin America**

**Evonik Brasil Ltda.**

Business Line Silanes  
Alameda Campinas, 579  
01404-000 São Paulo-SP  
Brazil  
PHONE +55 11 3146 4123  
FAX +55 11 3146 4148  
protectosil@evonik.com  
www.protectosil.com

**Asia / Pacific**

**Evonik Korea Ltd.**

Business Line Silanes  
94, Galsan 1-dong  
Bupyeong-gu  
Incheon, 403-081, Korea  
PHONE +82 2320 4778  
FAX +82 2783 2520  
protectosil@evonik.com  
www.protectosil.com

**Asia / Pacific**

**Evonik India Pvt. Ltd.**

Business Line Silanes  
Krislon House  
Saki Vihar Road, Anderi (E)  
Mumbai - 400 072  
India  
PHONE +91 226 7238 809  
FAX +91 226 7238 811  
protectosil@evonik.com  
www.protectosil.com