

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):	NDSL
PICCS (Philippines):	No
TSCA (USA):	Yes
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 on our website www.protectosil.com or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging and Storage

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 demineralized 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 demineralized 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/m².

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 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

Evonik Operations GmbH

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

Asia / Pacific

Evonik (SEA) Pte. Ltd.

Silanes Business Line
3 Internatioanl Business Park
#07-18, Nordic European Centre
Singapore 609927
PHONE +65 6809 6906
FAX +65 6809 6699
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Taiwan Ltd.

Silanes Business Line
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 #247
FAX +886 227 17 2106
protectosil@evonik.com
www.protectosil.com

North America

Evonik Corporation

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

Asia / Pacific

Evonik (Shanghai) Co. Ltd.

Silanes Business Line
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

Silanes Business Line
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

Region Central and South America

Evonik Brasil Ltda.

Silanes Business Line
Rua Arquiteto Olavo Redig de Campos, 105
Torre A - 04711-904 São Paulo- SP
Brazil
PHONE +55 11 3146 9627
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Korea Ltd.

Silanes Business Line
3F (Nongshim Sungmookwan B/D)
112 Yeouidaebang-Ro
Dongjak-Gu
Seoul, 07057
Korea
PHONE +82 2320 4778
FAX +82 2783 2520
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik India Pvt. Ltd.

Silanes Business Line
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