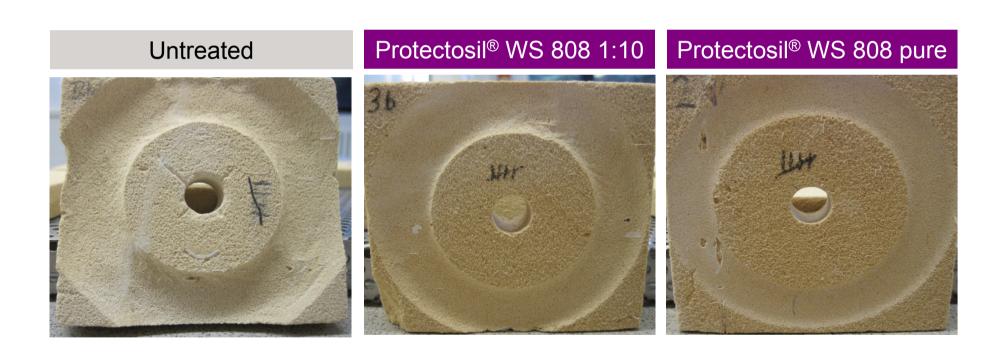




See it yourself – perfect beading effect...



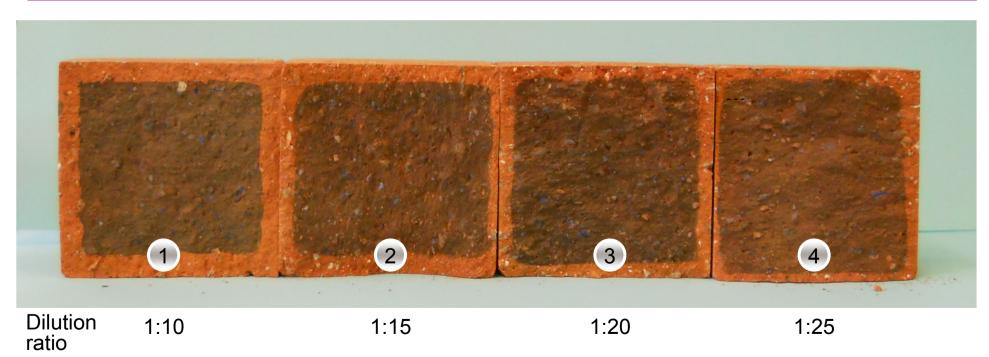
and a significant consolidation of mineral construction materials



Abrasion test of 500 rotations

High penetration depth at any dilution

Penetration depth



Protectosil® WS 808 at a glance



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

Product description

- Water based, 55 wt% active ingredient
- Clear colorless liquid
- Supplied as concentrate: to be diluted with tap water up to 1:100
- pH >13

Properties

- Excellent long-lasting beading effect even at very high dilutions
- · High penetration depth and fast curing
- Excellent consolidation of mineral construction materials
- Generates water-vapor permeable, colorless treatment
- Excellent reduction of water uptake
- Resistant against alkaline environment
- Prevents rising damp in brickwork and sand stone
- Significantly reduces the formation of white deposits on treated surfaces

Storage

Storage stability 12 months

Water repellent with long lasting beading effect



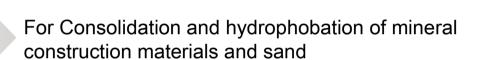
Excellent stone consolidant



Protectosil® WS 808 is suited for many applications...



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





Against rising damp in brickwork

For the restoration of natural stone

As binder for silicate-based paints



All documents are available





Product information

Protectosil® WS 808

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

Oligomeric propyl siliconate/silicate concentrate as waterrepellent and consolidant for mineral substrates

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

Safety and Handling

Before considering the use of Dynasylan* and Protectosil* thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available after registration on our website www.dvnasylan.com or upon request from your local representative, customer service or from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com.

Packaging and Storage

Protectosil* WS 808 is supplied as samples in 1 kg borosilicate

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.

Protectoril* WS 808 has a shelf life of at least 12 months if

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 tap water up to 1:30
- · 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
- · 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 tap water under vigorous stirring. The recommended dilution rate ranges from 1:10 – 1:30, the ideal dilution rate for best

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 1:20 is g/m^2 . SAFETY DATA SHEET (EC 1907/2006)

Protectosil® WS 808

Material no. Version 2.2 / REG_EU Revision date 08 02 2012 171425 Specification Print Date VA-Nr

@ EVO∩IK

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name Protectosil® WS 808

Evonik Industries AG Company

Inorganic Materials Produktsicherheit IM-PT-PS

Doeffach 1345 D-63403 Hanau

+49 (0)6181 59-4787 +49 (0)6181 59-4205 Email address sds-im@evonik.com Emergency telephone number +49 (0)7623-919191

Use of the Substance / Preparation additive for construction material

> Waterproofing agent surface treatment agent

2. HAZARDS IDENTIFICATION

Classification as per Directive 67/548/EC or Directive 1999/45/EC

R34: Causes burns

Other Hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Aqueous solution

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive

Potassium hydroxide < 5% CAS-No. 1310-58-3 EC-No. Xn; R22

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES

Description of first aid measures

Take off all contaminated clothing immediately.

If aerosol or mists are formed:

Possible discomfort: severe irritation of mucous lining (nose, throat, eyes), cough, sneezing, flow of tears Move victims into fresh air.

If breathing difficulties occur:

Evonik Industries AG | Product information Protectosil* WS 808 | Feb 2012 Page 1/3

Potential customers are



- Clay roof tiles manufacturers
- Terracotta tiles manufacturers
- Gypsum/ gypsum boards manufacturers
- Stone protection companies
- Silicate paint producers
- Paver producers
- Stone/brick manufacturers

• ...

Please add potential groups

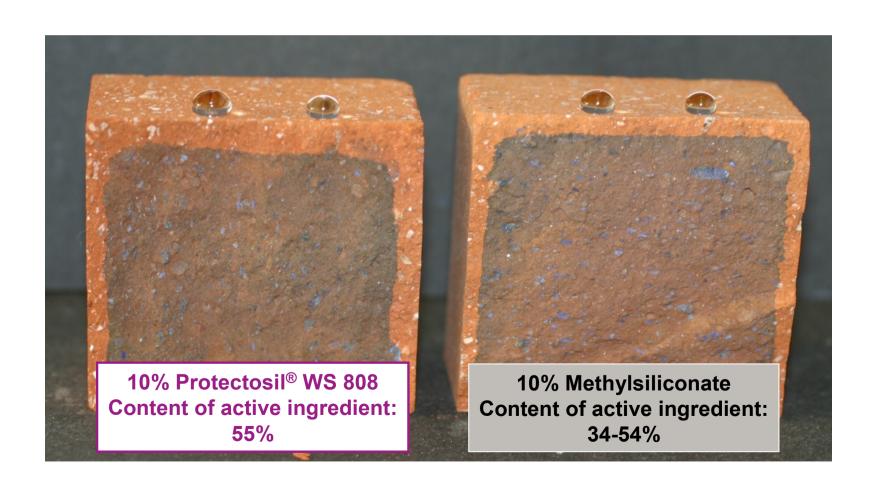


Key Benefits of Protectosil® WS 808 vs. Methylsiliconates

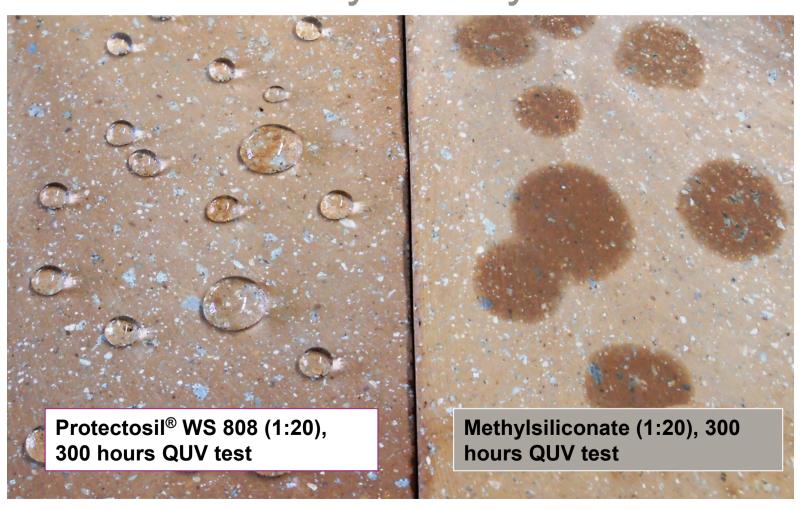


Properties	Methylsiliconates	Protectosil® WS 808
Beading effect	+	++
Hydrophobation	+	+
UV-Stability	-	++ (after 300 h QUV test)
Consolidation	-	++
Reduces formation of white deposits	-	+
Fast curing	-	+ Beading effect after ½ h at 5°C - RT
Alkali stability	-	+
Penetration depth	+	++
Reduction of water uptake at >1:100 dilutions	++	+

Protectosil® WS 808 - better beading effect and penetration depth compared to methylsiliconates



Protectosil® WS 808 has an excellent long-lasting beading effect not influenced by UV rays



Protectosil® WS 808 shows no formation of white deposits as common with methylsiliconates

