

Technical Data Sheet

Protectosil® WS 770 P

Ready to use pasty water repellent for surface and injection treatment

PRODUCT DESCRIPTION

Pasty, aqueous water repellent for hydrophobic treatment of dense building materials and ready to use injection agent for protection against rising damp in masonry.

Typical Properties

Property	Unit	Value
Appearance		white paste
Active Content		70%
Density	g/cm ³	0.90
DIN 51757 (@20 °C)		

The data represents typical values (no product specification)

Registration Listings

Registry	Status
Australia (AICIS)	No
Canada (DSL)	No
China (IECSC)	Information on Request
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
Korea (KECL)	Yes
USA (TSCA)	Yes

TYPICAL APPLICATIONS

Protectosil® WS 770 P can be applied as

- a hydrophobizing impregnation of porous and mineral substrates
- a ready to use injection agent for protection against rising damp in masonry

BENEFITS & ADVANTAGES

Water repellent for dense and porous mineral substrates

Protectosil® WS 770 P:

- shows very high reactivity and resistance against alkali
- shows optimum penetration even on dense mineral substrates
- shows no formation of sticky silicone films
- provides invisible and water vapor permeable protection
- reduces the uptake of water significantly
- reduces the uptake of water-soluble pollutants
- protects hair like cracks of up to 0.3 mm
- provides long contact times with the substrate due to its pasty consistency
- allows for easy overhead applications
- prevents material loss through run-off
- is CE certified according to EN 1504-2

Ready-to-use injection agent for prevention of rising damp in masonry

Protectosil® WS 770 P is a ready-to-use injection agent which is applied into masonry in order to create a horizontal barrier against rising damp. Protectosil® WS 770 P provides several benefits based on its product properties:

- easy to apply
- long lasting protection against rising damp
- reduction of maintenance costs
- water-based
- WTA certified

DOSAGE

Protectosil® WS 770 P as a water repellent

Protectosil® WS 770 P is to be used undiluted. The required consumption rate is highly depending on the absorbance and humidity of the substrate.

Substrate	Approx. consumption	Mode of application
Concrete	100 - 600 g/m ²	trowler + roller, spraying

Protectosil® WS 770 P as an injection agent

The required consumption rate to achieve an effective protection can vary as it has to be based on the absorbency of the masonry.

In order to evaluate the appropriate consumption rate of Protectosil® WS 770 P as well as the compatibility with potential pre- and/or post-treatment conditions, preparation of a small test area is recommended first.

HANDLING & PROCESSING

Application as a water repellent

The substrates to be treated should be dry and clean. Acceptable surface cleaning methods include sandblasting and water blasting. Damages such as cracks >0.3 mm or delaminations have to be repaired. It has to be ensured that the substrate has not just dried out in the areas close to the surface. After direct exposure to water or saturation of the capillaries an adequate drying time has to be provided.

Protectosil® WS 770 P should be applied with a trowel and distributed evenly on the surface by using a roller (e.g. lambswool roller). The layer thickness required depends on the substrates porosity, conditions, and humidity. On large areas Protectosil® WS 770 P can also be applied by spraying.

Non-absorbent substrates such as frames, windowsills, plastic fittings, window glass, etc., should be covered before application. Surfaces which accidentally come into contact with Protectosil® WS 770 P can be cleaned with alcohol (spirit) or aqueous soap solution. Cleaning should be carried out as quickly as possible (within a few hours), otherwise formation of a silicone resin film can impede cleaning. In the unlikely event of silicone resin films being observed, removal is best done using ethanol (or spirit). Plant life should be protected from contact.

Conditions during the application

- temperature of substrate and environment: 5 to 40 °C
- rel. humidity of substrate: < 75%
- rel. humidity of air: < 85%
- wind speed: < 10 m/s (or max. 6 Beaufort)

Areas treated with Protectosil® WS 770 P have to be protected from rain or flooding for at least 24 hours. The application of Protectosil® WS 770 P in direct, intensive sunlight may result in increased run-offs.

Application as an injection agent

Protectosil® WS 770 P is usually applied by pressureless injection by using a device such as a cartridge gun for example. In order to correctly apply Protectosil® WS 770 P, holes need to be drilled in to the masonry wall. The recommended distance between drill holes can vary depending on the absorbency of the substrate. The standard recommendation however is a distance of 10 cm. The drilling depth of the holes depends on the thickness of the wall. A remaining thickness of at least 5 cm should always be assured. Before Protectosil® WS 770 P is injected, holes must be cleaned from dust. For a proper function of the horizontal barrier the complete penetration/saturation of the brick work in the barrier zone is an essential requirement.

Masonry treated with Protectosil® WS 770 P should be given time to dry for at least 24 hours. During this time it should be protected against contact with water.

An application guide with pictures can be downloaded from our website silanes.evonik.com or from the customer portal (see QR-Code on last page).

PACKAGING

Protectosil® WS 770 P is supplied in 25 l and 200 l containers.

STORAGE

Protectosil® WS 770 P is not frost resistant and should be stored at temperatures between 3 °C and 40 °C.

SHELF LIFE

The product has a shelf life of at least 12 months if stored in originally sealed containers. It is recommended to use up opened containers within 3 months.

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 silanes.evonik.com or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.



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Protectosil® WS 770 P

Hydrophobizing Impregnation

Storage conditions: +5 °C up to +40 °C;
containers must be kept tightly sealed;

shelf life in originally sealed containers 12 months

Penetration depth: Class II ≥ 10 mm

Water absorption and alkali stability:

Absorption coefficient < 7,5 %, compared to the non-treated sample

Absorption coefficient < 10 %, after storage in alkali solution

Drying speed for hydrophobizing impregnation: Class II: > 10

Harmful substances: In accordance with 5.4



For further information
visit our
customer portal



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