

Technical Data Sheet

ConProtect SL 410

Water repellent (beading effect) impregnation for mineral substrates

PRODUCT DESCRIPTION

Aqueous emulsion based on organofunctional silanes for the water repellent impregnation of absorbent mineral substrates while providing an excellent water beading effect.

TYPICAL APPLICATIONS

ConProtect SL 410 is suited for the water repellent impregnation of absorbent, mineral substrates:

- Concrete
- Paving stone
- Clay bricks
- Clay roof tiles
- Clinker masonry
- Sand limestone
- Other mineral substrates

BENEFITS & ADVANTAGES

- Provides significant reduction of water uptake
- Shows very high reactivity and resistance against alkali
- Penetrates deeply in porous, mineral substrates
- Shows no formation of sticky silicone films
- Gives invisible and water vapor permeable protection
- Reduces the uptake of water-soluble pollutants (e.g. chlorides)
- effective on micro cracks up to 0.3 mm
- Creates a beading effect

TYPICAL PROPERTIES

Property	Unit	Value
Active Content	%	50
Appearance		Milky white liquid
Density	g/cm ³	0.94 (DIN 51757 @ 20 °C)
Flash Point, min.	°C	> 63 (EN ISO 2719)
Viscosity	mPa·s	0.95 (DIN 53015 @ 20°C)

HANDLING & PROCESSING

The treated surfaces must be dry and clean. Permitted cleaning methods include sandblasting and water washing. Most liquid application devices (e.g., airless spray equipment) are suitable for use. The material should not be sprayed as an aerosol or applied with a brush.

Since ConProtect SL 410 contains water, it is sensitive to cold and must not be used at temperatures below 0 °C. The ideal temperature range for application is between +4 °C and +40 °C. Do not apply the product if rain is expected or if strong winds or other environmental conditions hinder proper application.

A surface that has already been made water-repellent is not suitable for treatment with ConProtect SL 410, as it will no longer allow the absorption of a water-based silane/siloxane emulsion. In such cases, pure silane or solvent-based systems, such as ConProtect All-time, can be used.

Non-absorbent surfaces, such as window frames, sills, plastic fittings, glass, etc., should be covered before application. Surfaces that accidentally come into contact with ConProtect SL 410 can be cleaned with alcohol (spirit) or aqueous soap solutions. Cleaning should be carried out as soon as possible (within a few hours); otherwise, the formation of a silicone resin film may make cleaning more difficult. Silicone resin films are best removed using ethanol (or spirit).

Plants must be protected from overspray.

DOSAGE

The amount of ConProtect SL 410 to be applied depends heavily on the absorbency of the substrate and the desired penetration depth. Highly absorbent substrates may require up to 500–1000 g/m² of the material.

To determine the exact amount required and to verify compatibility with previous or subsequent treatments involving ConProtect SL 410, it is recommended to perform a small test application first.

Gently stir the product before use.

ConProtect SL 410 should be applied using the wet-on-wet method until the substrate is fully saturated. The solution should be applied in **2–3 coats** without allowing the layers to dry between applications, as the water-repellent effect of ConProtect SL 410 can develop within minutes.

On vertical surfaces, the solution should flow downward as a clearly visible wet curtain. This effect is achieved by allowing the solution to flow freely onto the surface without pressure.



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CONSUMPTION

Suitable Substrates	Approximate Consumption	Application Method:
Concrete	: Min. 300 g/m ²	Airless spraying
Clinker masonry	: Min. 240 g/m ²	Airless spraying
Sand limestone	: Min. 250 g/m ²	Airless spraying
Roof tiles	: Min. 300 g/m ²	Airless spraying or immersion
Paving stones	: Min. 250 g/m ²	Airless spraying

STORAGE

ConProtect SL 410 should be stored at temperatures between +3 °C and +40 °C.

PACKAGING

ConProtect SL 410 (liquid) is available in 1000 L IBC containers. At the customer's request, it can also be packaged in other containers, such as 1L, 3L, 5L, 25 L canisters.

HEALTH AND SAFETY

Before considering the use of ConProtect SL 410, carefully read its Safety Data Sheet (SDS) to obtain safety and toxicology information, as well as details on proper transportation, storage, and usage.

The Safety Data Sheet is available on request via info@slprotection.eu or from your local representative.

WASTE DISPOSAL

When disposing of waste, follow local waste management regulations and take hazardous waste to an appropriate collection point.

SHELF LIFE

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

MANUFACTURER CONTACT

SL Protection OÜ
Vana-Narva mnt. 30, Maardu, 74114, Harju maakond, Estonia
Tel. (+372) 55666174
<http://www.slprotection.eu>
E-mail: info@slprotection.eu



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SL Protection OÜ
Vana-Narva mnt. 30, Maardu, 74114,
Harju maakond, Estonia
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Hydrophobizer
ConProtect SL 410

Penetration depth	2.class, ≥ 10 mm
Water absorption coefficient	< 7,5 % compared to untreated test piece
Water absorption coefficient	< 10 % after impregnation in alkali solution
Drying speed of the hydrophobizer	2. class > 30 %
Dangerous substances	In accordance with 5.3



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www.slprotection.eu
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74114, Harju maakond, Estonia

NOTE: All reasonable precautions have been taken in the manufacture of ConProtect SL 410 products to ensure compliance with ConProtect SL 410 high-quality standards. Recommendations and product features are believed to be based on the most reliable information available, and do not constitute recommendations to infringe the rights of other patents. Although all ConProtect SL 410 products undergo rigorous quality testing, no specific guarantee can be given as results depend not only on quality but also on factors beyond our control. Therefore, we are happy to consult with you in case of any doubts regarding the application or the indicators, also pointing out that any oral recommendations other than those given here are not binding without written confirmation from ConProtect SL 410. All transactions are subject to our terms of sale, delivery and service. This data sheet supersedes the previous one, a superseding version can be issued without notice, if necessary. The information on this page is true and reliable to the best of our knowledge. The offered on-site service cannot be taken as responsible supervision. Therefore, our warranty is limited to the quality of the materials supplied.