

TECHNICAL DATA SHEET

ECO HYDRO SIL

Innovative silicate sealant. A division of ETS Europe.



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PRODUCT INFORMATION

DESCRIPTION:

ECO HYDRO SIL is an innovative silicate sealant and subsoil consolidation. It needs to be sprayed on substrates or brushed/rolled on surfaces to cover all areas. ECO HYDRO SIL protects against penetrating moisture and chemical stress.

COLOR:

The original colour of ECO HYDRO SIL is transparent.

PROPERTIES AND BENEFITS

- Solidifies the substrate and increases the chemical resistance
- Silicate-technology.
- Protection against penetrating water in case of cracking;
- Water vapor permeable
- Made with alternative materials that have a low CO2 footprint (environmentally friendly)
- VOC- and APEO-free, odorless.
- Reduces surface abrasion
- Protection against efflorescence.

RANGE OF USAGE

- For indoor and outdoor use
- Solidifies porous cementitious substrates
- Permanent protection against ground water, salt water and strong chemical stress
- As sealant against penetrating moisture on walls
- Protection against carbonation
- For protection and restoration of drinking water reservoirs, sewage plants and wastewater pipes
- Suitable for concrete, facades, walls, cellars, horizontal barriers, pipes and all cementitious substrates
- For factory-set protection of concrete products and parts
- Applicable for subsequent paintings

TECHNICAL INFORMATION

Property	Specification
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Basis	Inorganic
pH-value	11.4
Viscosity	< 100 mPas
Organic solvents	None
Density	1.1 g/cm ³
Consumption Concrete/ Screed: Self-Leveling compounds:	Depending on substrate 400-800 g/ m ² 30-60 g/m ²
Processing temperature	Min. 5 °C, max. 55 °C
Max. admitted air humidity	Max. 80% r.H.
Necessary number of applications	Min. of 2

The information above is given based on our experiences. Adjustment may be required in case of object specific fluctuations.

PREPARATION OF SUBSTRATE

Prior to the application process, the substrate must be absorbent, free of dust, loose parts, oils, fats and other impurities. Chalk and sandy components must be removed before the solidification using an efficient industrial vacuum cleaner. Coatings and/or render should be stripped off. Concrete and other cementitious substrates must have a minimum age of at least 7 days.

APPLICATION

Concrete and screed

ECO HYDRO SIL is to be sprayed undiluted on substrates or brushed/rolled on surfaces to cover all areas. It should be applied at least twice (wet-on-wet). Every application must penetrate completely into the substrate. The application should be repeated until the substrate is saturated, with any surpluses cleaned up. The surface must be protected against rain and moisture for 24 hours after application. Cover the freshly applied surface air-permeably. After 7 days, an air-tight cover is possible. In case of new concrete surfaces or other new cementitious materials the above-mentioned minimum age must be observed. The recommended consumption volume should not be exceeded.

Attention: When ECO HYDRO SIL is applied in combination with ECO HYDRO GLASS, ECO HYDRO SIL must be applied first. After enough drying (surface should not be wet) the subsequent coating with ECO HYDRO GLASS must be applied. For optimal results, both coatings must be applied

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within one day. Furthermore, it must be attended that due to the combination of both products the treatment with ECO HYDRO GLASS has to be considered. Depending on the substrate, an excess of one of these products could lead to an optical impairment of the surface. For further information about application of ECO HYDRO GLASS please refer to the technical data sheet of ECO HYDRO GLASS.

Self-leveling compounds

On fine-grained and dense substrates like the self-leveling compounds of the ECO Floors en Walls product line the surface must be prewetted with clear water before application of ECO HYDRO SIL. The water is distributed with a microfiber mop. Following ECO HYDRO SIL is applied wet in wet with a low-pressure sprayer, immediately distributed uniformly in one direction with a microfiber mop so that the complete surface is wetted with ECO HYDRO SIL. In order to ensure a uniform and stripe-free application prevent the microfiber mop from running dry. The formation of puddles and large supernatants should be avoided. ECO HYDRO SIL must be applied wet in wet in two thin layers to provide a sufficient protection. As soon as the last application with ECO HYDRO SIL is completely dried (approx. 2 hours), the surface can be polished if required. Further information is available on request.

TOOLS AND CLEANING

Brush, wide brush, paint roller or spraying device.
All equipment should be washed clean and dried before and after application.

PACKAGING AND STORAGE

Packaging: 5 or 30 L canisters. Container available on request.
Storage: 12 months in original packaging and in a dry and controlled temperate environment (not below 0 °C). Reseal opened containers immediately and use within a very short time.

SAFETY, ECOLOGY AND ELIMINATION

ECO HYDRO SIL is an alkaline liquid. Please refer to the Material Safety Data Sheet (MSDS) which can be requested on www.ets-europe.be for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

In case of decorative surfaces, a small sample should be created on an uncritical position at least one day before application. Do not apply on non-absorbent surfaces. Please protect glasses, glass, tiles, clinker and similar from splashing material! Aluminum may not encounter the material. Impurities must be washed off immediately with water. With each interruption of work the tools must be cleaned.

It is important to ensure that no ECO HYDRO SIL reaches the surface prior to application. For example, by dripping work tools or footwear under which ECO HYDRO SIL has collected. Otherwise

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efflorescence can occur on pre-wetted areas. Also, clean footwear should be worn during application to avoid contamination on fresh applied surface.

ETS EUROPE BV Herentaalsebaan 406 D1 B-2520 Wommelgem Belgium Tel + 32 3 227 28 58 Fax +32 3 475 16 66	
EN 1504-2:2004 Surface protection product - Impregnation EN 1504-2: ZA.1b Innovative silicate sealant and subsoil consolidation protects against penetrating moisture and chemical stress.	
Penetration depth	Class I: < 10 mm
Water absorption und alkaline resistance:	Absorption coefficient < 7,5% compared with untreated sample < 10% in alkaline solution
Chemical resistance:	No visible defects
Reaction to fire:	A1
Drying speed:	Class II: > 10 mm
Dangerous substances:	None

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. We assume no liability based on this information or any verbal statements.

The only exception is when we can be blamed for the case of intent or gross negligence. In that case the customer must prove that he has transmitted all required information completely and in a timely manner for a proper and promising evaluation by ETS Europe. Any further details regarding the application of our products must be confirmed in writing by ETS Europe. The customer must test the product's suitability for the intended application and purpose. We reserve the right to

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change the product specifications due to the ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product. The technical data sheet can be requested on www.ets-europe.be.

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