

TECHNICAL DATA SHEET

ECO HYDRO GLASS



Date: 16/07/2017

Revision: 02/03/2021

Innovative silicate impregnation. A division of ETS Europe.

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PRODUCT INFORMATION

DESCRIPTION:

ECO HYDRO GLASS is an innovative silicate impregnation and a subsoil consolidation which protects against penetrating moisture in masonry and concrete.

COLOR:

PROPERTIES AND BENEFITS

- Good chemical & salt water resistance;
- Silicate-technology;
- Protection against penetrating water in case of cracking;
- Water vapor permeable;
- For waterproofing against saltwater, acid, sewage water and other chemicals;
- Solidifies the substrate and increases the chemical resistance due to durable silicate structures;
- Made with alternative materials that have a low CO2 footprint;
- VOC and APEO-free, odorless;
- Reduces surface abrasion;
- Protection against efflorescence;
- Prevents algae growth on mineral substrates.

The original colour of ECO HYDRO GLASS is transparent.

Head office

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RANGE OF USAGE

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- For indoor and outdoor use
- For impregnation of porous, absorbent and sandy surfaces like concrete, screed, masonry and other cementitious substrates
- For preparation of hydrophobic surfaces
- Permanent protection against ground water, salt water and strong chemical stress
- As sealant against penetrating moisture on walls
- Suitable in areas with high mechanical and chemical stress

TECHNICAL INFORMATION

Property	Specification
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. 150-400 g/m ² 15-30 g/m ²
Processing temperature	Min. 5 °C, max. 55 °C
Max. admitted air humidity	Max. 80% r.H.
Necessary number of applications	1-2, with a time span of 10 min between.

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

PREPARATION OF SUBSTRATE

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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 2 days.

APPLICATION

Concrete and screed

ECO HYDRO GLASS needs to be applied undiluted with brush, roller or spray up to saturation of the dry underground. Mix in a ratio of 1:1 with water on highly absorbent and fine pored substrates. Diluted material should be applied twice wet on wet. The surface should not be dried off between coatings. Surpluses are to be avoided. Protect the treated areas from rain and condensation at least 24 hours during which the solidified surface may not be coated or treated. Cover the freshly applied surface air-permeably. After 7 days, an air-tight cover is possible. Dry for at least 6 hours and avoid temperatures below the dew-point.

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 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 ETS ECO product line the surface must be prewetted with clear water before application of ECO HYDRO GLASS. The water is distributed with a microfiber mop. Following ECO HYDRO SIL is applied wet in wet with a lowpressure sprayer, immediately distributed uniformly in one direction with a microfiber mop so that the complete surface is wetted with ECO HYDRO GLASS. 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.

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.

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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 GLASS 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 GLASS reaches the surface prior to application. Also, clean footwear should be worn during application to avoid contamination on fresh applied surface.

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 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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