

TECHNICAL DATA SHEET

ECO FLEX ALL IN ONE

Flexible crack-bridging two-component waterproofing. A division of ETS Europe.



Silicate Systems

Date: 16/07/2017
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PRODUCT INFORMATION

DESCRIPTION:

ECO FLEX ALL IN ONE is a flexible crack-bridging 2K – waterproofing for indoor and outdoor use against pressing and non- pressing water.

COLOR:

The color of **ECO FLEX ALL IN ONE** is grey.

PROPERTIES AND BENEFITS

- Eco-Binder technology
- High chloride & saltwater resistance
- Environmentally friendly
- VOC- and APEO-free
- tested according to DIN EN 14891
- Durable at early stage
- Flexible and crack-bridging to at least 1.3 mm
- Tested according to DIN EN 14891
- Waterproof up to 2 bar.
- Easy application.

RANGE OF USAGE

ECO FLEX ALL IN ONE is ideal for indoor and outdoor use.

- For waterproofing of building elements, tanks, basins, cellars.
- Tanks with 20 m water level.
- Waterproofing swimming pools and roofs.
- It is also ideal for waterproofing in combination with ceramic covers according to EN 12004 (balconies, terraces, showers, bathrooms with floor drains and swimming pools).
- Waterproofing against rising damp for cellar masonry work.
- As carbonation inhibiting agent on concrete surfaces in splash water areas.
- Moreover, **ECO FLEX ALL IN ONE** has a range of usage that fits the ZDB-moisture classes 0, A01, A02 and B0.

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TECHNICAL INFORMATION

Mixing ratio	1 part Component A (Powder) – 1 part Component B (Liquid)	Basis Powder Liquid	Mineral Dispersion
Water impermeability	up to 2 bar	Color	Grey
Processing temperature	min. +5 °C, max. +35 °C	Processing time at 20°C	approx. 50 min
Single layer thickness Total application thickness	1 mm max. 2 mm	Necessary layers	2 layers
Loadability Walkable Mechanical load	Curing at 20°C 6 hours 1 day	Consumption	3 kg/m ² in 2 coats

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

PREPARATION OF SUBSTRATE

For the preparation of the substrate, the suitable substrates would be concrete and masonry and cementitious plaster and screed.

All wall or floor substrates must be load-bearing, free of loose material and matt-damp. Water repelling residues should be removed. Acute leakages (or pressing water) have to be waterproofed with Water Stop cement to ensure sufficient curing of the subsequent coating with **ECO FLEX ALL IN ONE**. Suitable for all concrete and masonry work surfaces with fine-pored surfaces such as render surfaces in class P III and P II (in indoor areas). Incompletely filled joints, holes and wide cracks should be closed and projecting broken-off edges. Coarse pored substrates (e.g. aggregate particle-pored, light-weight concrete blocks) must be filled first. Selection of appropriate waterproofing is based on the water pressure, soil nature and building construction. These factors should be identified as early as possible prior to any waterproofing application.

On highly absorbent surfaces apply one layer of primer if necessary. For this purpose mix component B with clear water in a ratio of 1:1. Apply the material with a long-haired paint roller until the substrate is saturated. Apply ECO FLEX ALL IN ONE Flex after sufficient drying time of the primer.

Rounding of edge areas

For rounding of wall-floor or wall-wall transitions use **ECO ALL IN ONE** for preparation of coves. Please refer to the technical data sheet of **ECO ALL IN ONE** for more information. All cove areas must be fully covered with two layers of **ECO FLEX ALL IN ONE** for a complete waterproofing and protection against damaging chemicals.

MIXING AND APPLICATION

ECO FLEX ALL IN ONE is supplied in adjusted pre-packed proportions of compounds (5kg dry mortar and 5kg liquid component, total 10kg). All dry mortar has to be mixed with the entire liquid component (first add liquid, then pour the powder into the mixing container) while constantly mixing for about 3 min until a uniform, lump-free

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mortar is formed. The mixture must not contain any residues of dry powder. Small quantities can be mixed using an electrical drill with a speed of max. 800 rpm.

Regarding the waterproofing of buildings: Waterproofing is carried out in at least 2 full-surface applications. Minimum total thickness of the layer must be 1 mm (min) at any point, **the maximum thickness is 2 mm.**

Pre-wet the substrate with water but avoids puddles. The first layer of ECO FLEX ALL IN ONE must always be applied by brush. The fine mortar is rubbed into the ground intensively to provide saturation coverage and closed surface. The second layer can be applied either by brush or by trowel. It must be rubbed off thereafter with a brush if a trowel was used. Application of the second coating can take place after 3 to 6 hours (at +23°C). Consumption of waterproofing should not exceed 2.0kg/m² per coating to ensure a constant drying. Protect the fresh waterproofing layer for 24 hours from drying out too quickly in wind, under sun, frost and rain.

Regarding bonded waterproofing under ceramic coverings: In order to guarantee a uniform coating, the substrate has to be even and matt damp before application. For a continuous waterproofing in bathrooms and wet rooms the waterproofing slurry is applied in a single application with an application thickness of 1 mm. A uniform coating thickness has to be ensured. For subsequent tiling work a sufficient drying time of at least 6 hours has to be observed. The exact waiting time is depending on the local humidity conditions.

TOOLS AND CLEANING

Mixing container, mixing device, drill, mixing peddle, compulsory mixer, trowel or brush.
All equipment should be washed clean and dried before and after application.

PACKAGING AND STORAGE

Packaging: 10 kg bucket with 5 kg Comp. A (Powder) and 5 kg Comp. B (Liquid).

Storage: 12 months in original packaging and in a dry and controlled temperate environment (not below 0 °C, recommended 10 – 25 °C). Reseal opened containers immediately and use within a very short time.

SAFETY, ECOLOGY AND ELIMINATION

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.

Note: Do not use **ECO FLEX ALL IN ONE** below +5°C or above 35°C or on frozen substrates, in freezing weather, high thermal loads or wind. Mixed material should be used within the given pot-life (90 min. at 20°C). Mortar cannot be reused by adding water or other additives. Protect the fresh waterproofing layer for 24 hours from drying out too quickly in wind, under sun, frost and rain. To achieve its complete waterproofing effect, the waterproofing material must be able to set and dry thoroughly. For this any rising of moisture from the substrate should be avoided during hardening of the waterproofing. To avoid any accumulation of water on the surface the ambient temperature should be at least 3°C above the prevailing dew point during application. In case of high humidity sufficient heating or ventilation has to be ensured.

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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. In particular, 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 has to 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 have to 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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ETS Europe BVBA Herentaalsebaan 406 D1 BE – 2160 Wommelgem Tel + 32 3 227 28 58 Fax +32 3 475 16 66	
20 No. ECO FLEX ALL IN ONE	
DIN EN 14891 Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives. DIN EN 14891: ZA.1 CM Flexible crack-bridging waterproofing.	
Initial adhesive strength:	≥ 0.5 N/mm ²
Water impermeability:	No water permeation
Crack bridging:	≥ 0.75 mm
Adhesive strength after thermal aging:	≥ 0.5 N/mm ²
Adhesive strength after contact with water:	≥ 0.5 N/mm ²
Adhesive strength after contact with lime water:	≥ 0.5 N/mm ²
Adhesive strength after freeze-thaw cycling:	≥ 0.5 N/mm ²
Release of hazardous substances:	NPD

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