ECO FLEX ALL IN ONE

Flexible crack-bridging two-component waterproofing

2 bar*	1.3 mm	≥ 0.5 N/mm²	max. 2 mm*
WATER IMPERMEABILITY	CRACK-BRIDGING	ADHESIVE STRENGTH	LAYER THICKNESS

* Achieved at the full 2 mm thickness, applied as two layers of 1 mm each — not in a single coat.

PROPERTIES AND BENEFITS

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

DESCRIPTION

Eco Flex All In One is a flexible crack-bridging two-component waterproofing for indoor and outdoor use, against pressing and non-pressing water.

COLOUR

Grey.

RANGE OF USAGE

For indoor and outdoor waterproofing of building elements, tanks, basins and cellars (tanks with up to 20 m water level), swimming pools and roofs. Suited to waterproofing in combination with ceramic covers per EN 12004 (balconies, terraces, showers, bathrooms with floor drains, swimming pools), against rising damp for cellar masonry, and as a carbonation-inhibiting agent on concrete in splash-water areas. Fits ZDB moisture classes 0, A01, A02 and B0.

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Technical information

COMPOSITION AND PERFORMANCE

Mixing ratio	1 part A (powder) : 1 part B (liquid)
Basis	Mineral / polymer dispersion
Water impermeability	up to 2 bar
Necessary layers	2 layers
Single layer thickness	1 mm
Total application thickness	max. 2 mm

LOADABILITY

Walkable	6 hours
Mechanical load	1 day

Curing at 20°C.

MIXING AND PROCESSING

Processing temperature	min. +5 °C, max. +35 °C
Processing time at 20°C	approx. 50 min
Consumption	3 kg/m² in 2 coats

PACKAGING AND STORAGE

Packaging	10 kg bucket (5 kg A + 5 kg B)
Storage	12 months
Storage temperature	10–25 °C, not below 0 °C

Store in original packaging, in a dry and controlled temperate environment. Reseal opened containers immediately and use within a short time.

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

PREPARATION OF SUBSTRATE

Suitable substrates: concrete, masonry, cementitious plaster and screed. All surfaces must be load-bearing, free of loose material, and matt-damp, with water-repelling residues removed. Acute leakages or pressing water must be waterproofed with water-stop cement first. Suitable for fine-pored render surfaces (class P III and P II indoors); incompletely filled joints, holes and wide cracks must be closed, and coarse-pored substrates filled first. Suitable waterproofing selection depends on water pressure, soil nature and building construction, identified as early as possible.

On highly absorbent surfaces, apply one layer of primer if necessary — mix Component B with clear water 1:1 and apply with a long-haired paint roller until saturated. Apply Eco Flex All In One after sufficient primer drying time.

Rounding of edge areas: use Eco All In One to prepare coves (refer to its technical data sheet). All cove areas must be fully covered with two layers of Eco Flex All In One for complete waterproofing and protection.

Supplied in pre-packed proportions (5 kg dry mortar + 5 kg liquid component, 10 kg total). Add the liquid component first, then pour the powder into the mixing container, mixing constantly for about 3 minutes until a uniform, lump-free mortar with no dry powder residue is formed. Small quantities can be mixed with an electric drill at max. 800 rpm.

Waterproofing of buildings

Apply in at least 2 full-surface applications; minimum total thickness is 1 mm at any point, maximum 2 mm. Pre-wet the substrate with water, avoiding puddles. The first layer must always be applied by brush, rubbed intensively into the ground for full saturation and a closed surface. The second layer can be applied by brush or trowel, rubbed off with a brush if trowelled, 3–6 hours after the first (at +23°C). Consumption should not exceed 2.0 kg/m² per coat to ensure constant drying. Protect the fresh layer for 24 hours from rapid drying in wind, sun, frost and rain.

Bonded waterproofing under ceramic coverings

The substrate must be even and matt-damp before application. For continuous waterproofing in bathrooms and wet rooms, apply the slurry in a single application at 1 mm thickness, ensuring uniform coating thickness. Allow at least 6 hours' drying before subsequent tiling work; the exact waiting time depends on local humidity.

TOOLS AND CLEANING

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

Note

Do not use below +5°C or above +35°C, on frozen substrates, in freezing weather, high thermal loads or wind. Use mixed material within the pot-life (90 min at 20°C) — it cannot be reused by adding water or other additives. Keep the ambient temperature at least 3°C above the prevailing dew point during application, with sufficient heating or ventilation in high humidity.

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Notes, safety and declaration of performance

SAFETY, ECOLOGY AND ELIMINATION

Refer to the Material Safety Data Sheet (MSDS), available on request, for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

DECLARATION OF PERFORMANCE

CE

0761 · 20

CE — manufacturer details and Declaration of Performance on request from NBS Distribution

NO. ECO FLEX ALL IN ONE · DIN EN 14891

DIN EN 14891: ZA.1 CM

Liquid applied water-impermeable product for use beneath ceramic tiling bonded with adhesives. Flexible, crack-bridging waterproofing.

Initial adhesive strength	≥ 0.5 N/mm²
Water impermeability	No water permeation
Crack bridging	≥ 0.75 mm
Adhesive strength after thermal ageing	≥ 0.5 N/mm²
Adhesive strength after water contact	≥ 0.5 N/mm²
Adhesive strength after lime-water contact	≥ 0.5 N/mm²
Adhesive strength after freeze-thaw cycling	≥ 0.5 N/mm²
Release of hazardous substances	NPD

AVAILABLE ON REQUEST

Signed Declaration of Performance; Material Safety Data Sheet (MSDS).

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 NBS Distribution. Any further details regarding the application of our products have to be confirmed in writing by NBS Distribution. 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.