ECO ALL IN ONE

One-component mineral waterproofing slurry

5 bar*	35 N/mm²	2–4 mm*	45 min
WATERPROOF AFTER 28 DAYS	COMPRESSIVE STRENGTH	LAYER THICKNESS	PROCESSING TIME AT 20°C

* Waterproofing performance is achieved at the full 4 mm thickness, applied as two layers of 2 mm each — not in a single coat.

PROPERTIES AND BENEFITS

- Eco-Binder technology
- Mineral
- Durable at early stage
- Waterproof up to 1.5 bar after just 7 days
- Waterproof up to 0.3 bar under negative water load, depending on substrate
- Also processible by machine
- High chemical & saltwater resistance
- Very low emission EMICODE EC1^{PLUS}
- Resistant to sulfate according to DIN 4030, exposure class XA2
- Waterproof up to 5 bar after 28 days
- Suitable for drinking water according to DVGW W 270 and W 347

DESCRIPTION

Eco All In One is a one-component mineral waterproofing slurry. It can be used for the preparation of waterproof coatings on concrete and other substrates based on cement.

LOADABILITY

Walkable	1 day
Light load	1 day
Fully loadable	7 days

Curing at 20°C.

RANGE OF USAGE

Eco All In One is ideal for the waterproofing of drinking water reservoirs and for the waterproofing of building constructions in interior and exterior areas.

Suited to permanently wet and underwater areas, against soil moisture, non-pressing ground and seeping water, and pressing water.

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Technical information

STRENGTH AND CLASSIFICATION

Compressive strength	approx. 35 N/mm²
Flexural strength	approx. 7.5 N/mm²
Number of coats	2 layers
Single layer thickness	2 mm
Total application thickness	max. 4 mm

DENSITY

Bulk density	approx. 1.3 kg/dm³
Fresh mortar density	approx. 1.9 kg/dm³

MIXING AND PROCESSING

Mixing ratio — slurry	4.25 L water / 25 kg powder
Mixing ratio — creamy	3.75–4.0 L water / 25 kg powder
Processing temperature	min. +5 °C, max. +35 °C
Processing time at 20°C	approx. 45 min
Consumption	approx. 2 kg/m² per mm layer

PACKAGING AND STORAGE

Packaging	25 kg paper bag
Storage	12 months, unopened
Storage temperature	10–25 °C, not below 0 °C

Store in a dry, 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

The surface must be stable, with sufficient surface tensile strength, dry or matt damp, clean and free from debris. Mechanical surface preparation such as shot blasting is recommended to improve adhesion for the subsequent layer. Deep ruptures in the floor must be closed beforehand with Eco Repair; breakouts on walls can be filled with sand-filled material, pre-mixing Eco All In One 1:1 with 0.1–0.4 mm sand and 3.25 L water per 25 kg mix. Ruptures may alternatively be filled with Eco All In One Thick.

The surface must be permanently vibration-free and crack-free; existing cracks must be repaired professionally. The adhesive strength of Eco All In One on the mineral substrate must be at least 1.5 N/mm². Waterproofing against pressurised water is only possible on concrete surfaces.

Pre-wet absorbent surfaces — concrete, cement plaster, sand-lime brick fully jointed with cement mortar, brick, heavy concrete, and hollow block masonry — according to substrate moisture, until matt damp, avoiding puddles. In case of pressing water or acute leakages, pre-fill the substrate with water-stop cement before application. For internal waterproofing against negative water pressure, the substrate must provide sufficient bonding strength; use Eco Primer on highly absorbent substrates, observing its drying times.

MIXING AND APPLICATION

Add 3.75–4.25 L water per 25 kg powder into the mixing container, then pour Eco All In One in while stirring. Use a drill mixer with paddle and mix until lump-free; after a 2-minute setting time, mix again for 1 more minute. Mix only as much material as can be applied within 45 minutes, and do not mix with any liquid component other than water.

On extremely absorbent substrates, use Eco Primer and observe its drying times. Eco All In One is usually applied with a mason's swab or trowel. The first coating must be applied by brush; subsequent coatings may be applied by trowel and rubbed off with a brush. Total coating thickness is 4 mm max. For good adhesion on horizontal surfaces, apply the first coating with a broom with hard bristles. Deeper ruptures up to 20 mm can be filled with Eco All In One mixed with quartz sand, using the same mixing procedure as for coves.

After applying the waterproofing slurry, keep the coating moist for at least 24 hours, and avoid direct solar radiation and frost for a further 2 days. Protective coatings, slabs, tiles, or gypsum-free mortar may only be applied once Eco All In One has sufficiently hardened.

Rounding of edge areas

For wall-floor or wall-wall transitions, Eco All In One is prepared as a cove. Mix the mortar with 4.25 L water per 25 kg powder, pre-wet both sides of the edge, then apply as a bonding slurry by brush. The cove is finished wet-in-wet with Eco All In One pre-mixed 1:1 with 0.1–0.4 mm quartz sand and 3.25 L water per 25 kg dry mix, applied above the edge and finished with a round trowel. Side length of the cove should be around 2–4 cm; all edges are smoothed with a wetted brush. Floating or unbonded screeds should have the cove connected to the ground only, with wall connections prevented by edge joints filled with a permanently elastic compound.

> **Note concerning post-processing and coating protection**
>
> For use as a final coat, apply a suitable surface protection system. For higher abrasion or chemical resistance, a combined application of Eco Hydro Sil and Eco Hydro Glass is recommended.

CONSUMPTION DETAILS

Soil moisture & non-pressing water — min. 2.0 mm layer	approx. 4.0 kg/m²
Pressing water, max. 1.5 bar — min. 3.0 mm layer	approx. 6.0 kg/m²

TOOLS AND CLEANING

Mason's swab, trowel, brush, pump. All equipment should be washed clean and dried before and after application.

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Notes, safety and declaration of performance

NOTES

Do not apply on frozen substrate, in freezing conditions, or during rain. Use structural measures such as expansion joints to prevent crack formation, and an appropriate flexible or elastomeric sealant to waterproof joints. Waterproofing must be applied to the surface exposed to water (positive stress); for internal waterproofing against negative stress — particularly when renovating existing buildings — the structure must withstand the water pressure. Suitable waterproofing selection depends on water load, ground composition and structural design.

Eco All In One contains ground-granulated blast furnace slag (GGBS). In humid conditions or with permanent water exposure without an additional coating, GGBS can cause green-blueish discoloration on the mortar surface; product quality is not affected. Mitigation must be agreed in advance where relevant.

SAFETY, ECOLOGY AND ELIMINATION

Avoid inhaling dust when opening packaging. Protect skin and eyes during mixing. 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.

TYPE APPROVAL

RISE

C900385

Valid to 2027-01-18

SWEDISH TYPE-APPROVAL · PBL CHAPTER 8, §4

Drinking-water contact approval

Covers internal coating of reservoirs, tanks and similar installations for drinking-water storage. Assessed as not releasing harmful substances into drinking water, and not promoting microbial growth or affecting the water's colour, odour or taste, per the W 347 Code of Practice for cement-bound materials in drinking-water supply systems. Manufacturing controlled independently by RISE Certifiering for a named production site.

AVAILABLE ON REQUEST

RISE type-approval certificate C900385; 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.