ECO TERRAZZO BINDER

Binder for self-compacting terrazzo floors

CT-C35-F5 – C40-F7	6–15 mm	4 hrs	1 day
STRENGTH CLASS · NBN EN 13813	LAYER THICKNESS	WALKABLE	GRINDABLE

PROPERTIES AND BENEFITS

- Eco-Binder technology
- Mineral
- Fast curing and tension-relieved
- Processible by machine
- Environmentally friendly
- Very low emission EMICODE EC1 PLUS
- Easy application

DESCRIPTION

Eco Terrazzo Binder is an easy-to-use binder for self-compacting terrazzo floors. Hardens tension-relieved with a layer thickness of up to 15 mm.

COLOUR — NCS OR RAL

Natural mineral colour. Can be pigmented on site, max. 2% powder pigment. To follow the NCS or RAL reference of the project, finish with Eco Floor Protect or Eco Protection Varnish.

LAYER THICKNESS BY FORMAT

Micro terrazzo	6–15 mm
Terrazzo	10–15 mm

Strength class varies with the aggregate grain size used.

RANGE OF USAGE

For indoor and outdoor use: decorative coating of concrete and screed (cement and calcium sulphate-based, heated/non-heated), and adhering ceramic coverings.

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Technical information

COMPOSITION

Mixing ratio	50% sand, 25% filler, 25% binder
Filler grain size	0–0.1 mm
Decorative sand, micro terrazzo	0–4 mm
Decorative sand, terrazzo	0–8 mm

DENSITY

Bulk density	approx. 1.3 kg/dm³
Fresh mortar density	approx. 2.0 kg/dm³

MIXING AND PROCESSING

Water demand	approx. 3.25–3.75 L / 25 kg ready-to-use mix
Processing temperature	min. +2 °C, max. +35 °C
Processing time at 20ºC	approx. 30 min

PACKAGING AND STORAGE

Packaging	25 kg paper bag
Storage	12 months

Store in original packaging, in a dry and controlled temperate environment (not below 0ºC, recommended 10–25ºC). Reseal opened containers immediately.

PRODUCT VERSIONS

Terrazzo Binder can be applied in different versions, varying the grain size of the decorative sand used. For a terrazzo floor, mix 25 parts (by weight) Eco Terrazzo Binder with 25 parts bright limestone powder, then add 50 parts decorative sand at the permitted grain size. Water requirement varies by product version and desired consistency; use 3.25–3.75 L per 25 kg ready-to-use mix as an indication.

PREPARATION OF SUBSTRATE

The surface must be stable, with sufficient surface tensile strength, dry or matt damp, clean and free from debris; mechanical preparation such as shot-blasting is recommended. Deeper ruptures must be filled with Eco Repair. The surface must be permanently vibration-free and crack-free, with existing cracks repaired professionally, and adhesive strength of at least 1.5 N/mm². The substrate must be dried for 2 hours after priming with Eco Primer, with a 1 m² test area recommended on critical undergrounds; coating work on the primer must be finished within 6 hours. Edge joints must be prepared with a suitable expansion strip, taking care over clean adhesion to avoid material flowing beneath it; after finishing all coating works, joints must be filled with a permanently elastic compound and transitions protected by end rails.

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Mixing, application and pigmentation

MIXING AND APPLICATION

Mix using a commercial compulsory mixer. Pretest the required water amount for the grain size used on a small test area, ensuring uniform distribution of all components. Mix intensely for 3 minutes, let set for 2 minutes, then mix again for 1 minute, pouring out seamlessly within the workability time. Apply onto the primed surface and distribute with a suitable trowel or pin leveller to the intended thickness. Do not use special screed additives or other binders for mixing. Protect the coating from too-quick drying (no draft) for the first 24 hours, and do not cover the finished surface with foils or other materials.

COLOUR PIGMENTING

Eco Terrazzo Binder can be pigmented on site, starting from its natural mineral colour. Pigment content stays at max. 2% powder pigment, the limit that protects the mineral technology. The NCS or RAL reference guides the shade, and the result varies naturally with the mineral finish. To follow the NCS or RAL reference of the project, finish with Eco Floor Protect or Eco Protection Varnish, pigmented with 5–10% water-based pigment paste.

Use inorganic powder pigments suited to mineral flooring only; do not use organic pigments. Weigh the pigment for each batch (max. 2%), and keep the same pigment dose and water amount for every batch. Disperse the pigment fully in the mixing water first, mixing intensively for 1 minute until no lumps or streaks remain. Then add the powder and follow the standard mixing steps. Check the colour on a test area before application.

Post-processing and coating protection

Post-processing can begin 24 hours after application. Fill remaining pores after grinding with Eco Wall as a fine smoothing mortar, then apply at least 200 g/m² of Eco Hydro Sil for effective post-curing. After grinding and polishing, apply Eco Topcoat Mono as final impregnation.

HEATED FLOOR CONSTRUCTIONS

Downregulate underfloor heating to approx. 20ºC at least 3 days before application. 48 hours after application, flow temperature can be increased stepwise (5ºC per day).

TOOLS AND CLEANING

Compulsory mixer or comparable mixing device, trowel, pin leveller. All equipment should be washed clean and dried before and after application.

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Notes and declaration of performance

NOTES ON COLOUR

Minor colour differences between batches are possible — use one batch per section for a uniform colour.

SAFETY, ECOLOGY AND ELIMINATION

There is no mandatory hazard labelling for Eco Terrazzo Binder. 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.

DECLARATION OF PERFORMANCE

EPD verified

This product is covered by Environmental Product Declaration MD-26094-EN, verified by EPD Danmark in accordance with ISO 14025 and EN 15804+A2. Issued 10-09-2026, valid to 10-09-2031.

AVAILABLE ON REQUEST

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 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.