

TECHNICAL DATA SHEET

ECO TERRAZZO BINDER

Binder for self-compacting Terrazzo floors. A division of ETS Europe.



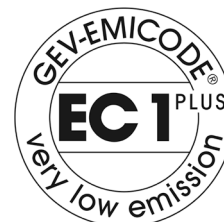
Silicate Systems

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PRODUCT INFORMATION

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 60 mm.



PROPERTIES AND BENEFITS

- Eco-Binder technology
- Environmentally friendly
- Mineral
- Very low emission EMICODE EC 1^{PLUS}
- Fast curing and tension-relieved
- Easy application
- Processible by machine

RANGE OF USAGE

TERRAZZO BINDER

- Can be used in in- and outdoor areas
- Decorative coating of concrete and screed (cement and calcium sulphate-based, heated /non-heated)
- Adhering ceramic coverings

TECHNICAL INFORMATION

Strength class	CT-C35-F5 – CT-C40-F7* According to NBN EN 13813	Walkable Fully loadable Grindable	After 4 hours 4 days 1 day
Mixing ratio	50% Sand 25% Filler 25% Binder	Water demand	Per 25 kg of ready to use mix(binder-filler-sand): approx. 3.25 – 3.75 L
Processing temperature Processing time at 20°C	Min. +2°C, max. +35°C Approx. 30 min.	Density Bulk density Fresh mortar density	Approx. 1.3 kg/dm ³ Approx. 2.0 kg/dm ³
Grain sizes / fineness Filler Decorative sand	0 – 0.1 mm 0 – 4 mm (Micro Terrazzo) 0 – 8 mm (Terrazzo)	Layer thickness Micro terrazzo Terrazzo	6 – 60 mm 12 – 60 mm

* Depending on the used grain size of all aggregates.

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PREPARATION OF SUBSTRATE

Prior to coating, ensure that the surface is stable and has sufficient surface tensile strength. The surface should also be ready for coating, dry or matt damp, clean and free from all kinds of debris. Mechanical surface preparation e.g. shot-blasting is recommended. Due to roughening the surface, the adhesion for the subsequent layer can be improved. Deeper ruptures must be filled with **ECO REPAIR**. The surface should be permanently vibration-free and crack-free. Already existing cracks must be repaired professionally. The adhesive strength of the substrate must be at least 1.5 N/mm². The substrate has to be dried for 2 hours after priming with **ECO PRIMER**. By priming the surface the absorbency of the substrate is adjusted. This avoids rising of air bubbles during the subsequent coating. In order to guarantee this on critical undergrounds, a test area of 1m² should be created. Apply a further layer of primer if necessary. The coating work on the primer has to be finished within 6 hours. Please refer to the technical data sheet **ECO PRIMER** for more information.

The edge joint must be prepared with a suitable expansion strip. Thereby attention must be paid to a clean adhesion to avoid material flowing below or behind the expansion strip. Expansion joints must be adopted. After finishing all coating works, all joints have to be filled with a permanently elastic compound. Transitions and closing edges should be protected against over-flow by installing end rails.

PRODUCT VERSIONS

Terrazzo Binder can be applied in different versions. Depending on the specific purpose and product version it is possible to vary the grain size of the decorative sand to be used. For application of a terrazzo floor mix 25 parts (parts by weight) of **ECO TERRAZZO BINDER** with 25 parts of a bright limestone powder.

Afterwards add 50 parts of decorative sand. Please refer to the table above for the permitted grain sizes. The required amount of water varies depending on the specific product version and the desired consistency. Use 3.25 – 3.75 L of water as an indication for 25 kg of ready-to-use mix.

MIXING AND APPLICATION

Mix the material by using a commercial compulsory mixer. It is recommended to use mixers of the TMX or XM product line by Collomix. The required amount of water for the used grain size has to be pretested on a small test area. Ensure a uniform distribution of all components during mixing. The material has to be mixed intensely for 3 minutes, left to set for 2 minutes, and then mixed again for 1 more minute. The material has to be poured out seamlessly within the workability time. After mixing, apply the fresh mortar with the **ECO TERRAZZO BINDER** onto the primed surface and distribute it with a suitable trowel or pin leveler to the intended thickness. Do not use special screed additives or other binders for mixing. The coating has to be protected from too quick drying (no draft) for the 1st 24 hours. Do not cover the finished surface with foils or other materials.

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PIGMENTATION

ECO TERRAZZO BINDER can be pigmented as needed. The used pigments should be suitable for mineral flooring products. The usability of specific pigments should be pretested. Generally, only inorganic pigments should be used. Do not use organic pigments or pigment preparations. For fast mixing and uniform color distribution we recommend liquid pigments.

In case of liquid pigments do not exceed the maximum dosage of 0.5% referred to the ready-to-use mix. In case of powder pigments a maximum dosage of 2% is recommended. Higher dosages lead to a decreased overall surface quality and to shorter workability times.

POST-PROCESSING AND COATING PROTECTION

Post-processing can be started 24 hours after application of the Terrazzo floor.

It is recommended to use floor grinding machines of the PDG product line by MKS Funke. To fill all existing pores after grinding use **ECO WALL** as fine smoothing mortar. In the next step apply at least 200 g/m² of **ECO HYDRO SIL** for effective post-curing of the surface. After completing all grinding and polishing work, **ECO TOPCOAT MONO** is applied as final impregnation.

HEATED FLOOR CONSTRUCTIONS

For applications on heated floor constructions the underfloor heating system must be downregulated to approx. 20°C at least 3 days before application. 48 hours after application the flow temperature can be increased stepwise to the desired value (increase of 5°C per day).

TOOLS AND CLEANING

Compulsory mixer or comparable mixing device, trowel, pin leveler.

All equipment should be washed clean and dried before and after application.

PACKAGING AND STORAGE

Packaging: 25 kg paper bag

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

There is no mandatory hazard labelling for **ECO TERRAZZO BINDER**. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process.

Please refer to the Material Safety Data Sheet 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.

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NOTES

The application has to be protected from drying too quickly (due to drafts or intense heat from the sun) for at least 24 hours. Some minor color differences are inevitable due to different production batches. This should be taken into account.

while performing work. It is necessary to work on designated sections with the same batch (see label) if a uniform color is desired. Due to different water addition during application or changing working techniques light color shades in the coating surface can occur. Please take note that this coating is a mineral product. Product colors are not fully conformed to the RAL-Map and therefore they should only be seen as estimated classifications.

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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