ECO WALL

Decorative smoothing mortar

8 N/mm²	Up to 30 mm	3 hrs	Grindable
COMPRESSIVE STRENGTH	LAYER THICKNESS	READY FOR CERAMIC COVERING	& SHRINKAGE-FREE

PROPERTIES AND BENEFITS

- Eco-Binder technology
- Resistant against salt water and chemicals
- Fast curing and shrinkage-free
- Grindable
- Environmentally friendly
- Very low emission EMICODE EC1 PLUS
- Polymer-modified
- Easy application

DESCRIPTION

Eco Wall is an innovative, environmentally friendly smoothing mortar which hardens fast and is shrinkage-free, at a layer thickness of up to 30 mm.

COLOUR — NCS OR RAL

Natural mineral colour: white. 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.

RANGE OF USAGE

For indoor and outdoor use: smoothing work on wall and ceiling surfaces and facades, and application as a decorative wall coating. Applicable in layer thicknesses of up to 30 mm.

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Technical information

STRENGTH

Compressive strength	approx. 8 N/mm²
Flexural strength	approx. 3 N/mm²

DENSITY

Bulk density	approx. 1.1 kg/dm³
Fresh mortar density	approx. 2.0 kg/dm³

LOADABILITY

Light load	1 day
Fully loadable	4 days

Curing at 20 ºC.

MIXING AND PROCESSING

Mixing ratio	7.25–7.5 L water / 25 kg powder
Processing temperature	min. +5 °C, max. +35 °C
Processing time	approx. 30 min
Application thickness	up to 30 mm
Consumption	approx. 1.0 kg/m² per mm layer

COVERING WAITING TIMES

Ceramic covering	after 3 hours
Paint and wallpaper	1 day
Synthetic resin plaster	1 day

PACKAGING AND STORAGE

Packaging	25 kg paper bag
Storage	12 months

The information above is given based on our experience.

PREPARATION OF SUBSTRATE

Ensure the underground is dry, clean, and free from substances that could cause separation before coating; mechanical preparation such as shot-blasting is recommended. Deeper ruptures must be filled beforehand. On strongly absorbent substrates, prime with Eco Primer — the surface must be dry, and dried for 2 hours after priming; a further layer of primer may be applied if necessary on critical undergrounds.

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Mixing, application and pigmentation

MIXING AND APPLICATION

Add 7.25–7.5 L water per 25 kg powder into the mixing container, then pour the powder in while stirring, using a mixing machine. Mix intensely for 2 minutes, let set for 3 minutes, then mix again for 1 minute; mix only as much material as can be applied within 30 minutes. Apply to the intended thickness, protecting the surface from too-quick drying (no draft) for the first 24 hours, and do not cover the finished surface with foils or other materials.

CRACK-SENSITIVE SUBSTRATES AND DRY CONSTRUCTION

Insert suitable fabric tapes or reinforcement fabrics during application. For flat installation of reinforcement fabrics, mix to a suitable consistency and apply with a toothed trowel, pressing the fabric into the fresh mortar from inside to outside and smoothing any residue pressed through the mesh; a second layer is applied wet-in-wet to fully cover the fabric, with mesh panel edges overlapping by about 10 cm. For drywall filling work, fill and smooth all joints with Eco Wall, position fabric tape above the joint, smooth with a trowel, and apply a second wet-in-wet layer to fully cover the tape. After sufficient curing, the surface is ready for grinding — apply a further layer if necessary.

COLOUR PIGMENTING

Eco Wall 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.

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; for complete sealing, use Eco Topcoat Mono.

TOOLS AND CLEANING

Drill, compulsory mixer, mixing device, mixing container, trowel, smoothing trowel. All equipment should be washed clean and dried before and after application.

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Notes and safety

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 Wall. 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.

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.