ECO MORTAR

Standard levelling mortar for indoor use

CT-C35-F7	35 N/mm²	A22	2–50 mm
STRENGTH CLASS · EN 13813	COMPRESSIVE STRENGTH	ABRASION RESISTANCE, BÖHME	APPLICATION THICKNESS

PROPERTIES AND BENEFITS

- Ideal for floor levelling
- Mineral
- Low stress & crack-free hardening
- High flowability
- Made with alternative materials with a low CO2 footprint
- Odourless
- Also processible by machine
- Environmentally friendly
- Very low emission EMICODE EC1 PLUS
- Good adhesion, compressive and tensile strength
- Directly usable, hard surface
- Mixable with sand for greater layer thickness and broader application range
- Easy application

DESCRIPTION

Eco Mortar is a very thin, liquid, mineral floor-levelling compound based on a new binder system. At a layer thickness of 2–50 mm, this easy-to-use, stress-free, self-levelling product cures quickly to a smooth surface processable by hand or machine.

PROCESSING TIME

10 °C	approx. 45 min
20 °C	approx. 30 min
30 °C	approx. 20 min
40 °C	approx. 15 min

RANGE OF USAGE

For smoothening rough and uneven concrete and cement screed areas indoors, and for smoothening surfaces before laying carpet, laminate, parquet, PVC flooring or linoleum. Its hardness also suits direct use in garages, factories and basements. For exterior use: only in combination with subsequent moisture protection.

STRENGTH AND CLASSIFICATION

Strength class, DIN EN 13813	CT-C35-F7
Compressive strength	approx. 35 N/mm²
Flexural strength	approx. 7 N/mm²
Abrasion resistance, Böhme	A22

LOADABILITY

Walkable	after 4 hours
Light load	1 day
Fully loadable	4 days
Fully loadable, exterior	7 days

Curing at 20°C.

MIXING AND PROCESSING

Mixing ratio	4.5–4.6 L water / 25 kg powder
Processing temperature	min. +5 °C, max. +45 °C
Processing time at 20°C	approx. 30 min
Consumption	approx. 1.7 kg/m² per mm layer

DENSITY

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

Floor temperature must be at least 3°C above the dew point. The given information is based on our experience.

PREPARATION OF SUBSTRATE

The surface must be 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; the pull-off test should be min. 1.5 N/mm². The substrate must be dry for priming and dried for 2 hours after priming — a 1 m² test area is recommended on critical undergrounds, with coating work on the primer finished within 6 hours. Expansion joints must be adopted. When using Eco Mortar as a final coat with simultaneous work on substrates of changing absorbency, pre-level the surface for uniform colouring using a toothed spatula or screed rake at 1 mm thickness. For a second layer, the pre-levelled underground must be primed again (approximately 4 hours later), observing waiting times until the next coating.

MIXING AND APPLICATION

Add 4.5–4.6 L water per 25 kg powder into the mixing container, then pour the powder in while stirring, using a suitable handheld mixer for manual applications. Mix intensely for 2 minutes, let set for 2 minutes, then mix again for 1 minute. Large areas require a continuous mixing pump or semi-automatic charge mixer (approx. 4–6 minutes per 100 kg powder). After mixing, apply onto the primed surface and distribute with a pin leveller, screed rake or trowel; use a spiked roller on the fresh mortar for better adhesion and texture, with spikes long enough for the intended layer thickness. Do not add additional water and apply directly. With manual processing, maintain a 5-minute aeration time between mixing and application to minimise air bubbles. Protect the coating from too-quick drying (drafts or intense sun) for at least 24 hours, and do not cover the finished surface with foils or other materials.

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, or Eco Topcoat Mat, or Eco Topcoat Mono is recommended.

HEATED FLOOR CONSTRUCTIONS

Downregulate underfloor heating to approx. 20°C at least 3 days before application. 48 hours after application, flow temperature can be increased stepwise (5°C per day). This applies to Eco Mortar only — refer to the relevant manufacturer's instructions for subsequently laid coverings.

TOOLS AND CLEANING

Mixing device (drill mixer or pump), trowel, spiked shoes, spiked roller, and screed rake or pin leveller. All equipment should be washed clean and dried before and after application.

NOTES ON COLOUR

Minor colour differences are inevitable due to different production batches — work on designated sections with the same batch if a uniform colour is desired. Different water addition or working techniques during application can cause light colour shades in the coating surface. This is a mineral product; colours are not fully conformed to the RAL map and should only be treated as estimated classifications.

SAFETY, ECOLOGY AND ELIMINATION

There is no mandatory hazard labelling for Eco Mortar. 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

CE

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

NO. ECO MORTAR · EN 13813

EN 13813 CT-C35-F7-A22

Easy-to-use levelling mortar. Hardens tension-relieved, at a declared layer thickness of 2–50 mm.

Fire behaviour	A1
Compressive strength	C35
Flexural strength	F7
Release of corrosive substances	CT

Also covered by Environmental Product Declaration MD-26094-EN, verified by EPD Danmark (ISO 14025, 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 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 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 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 nbsdistribution.eu.

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