ECO RAPID DECO

Self-levelling design floor

CT-C40-F10	40 N/mm²	A12	1–30 mm
STRENGTH CLASS · EN 13813	COMPRESSIVE STRENGTH	ABRASION RESISTANCE, BÖHME	LAYER THICKNESS

PROPERTIES AND BENEFITS

- Eco-Binder technology
- Mineral
- Very low emission EMICODE EC1 PLUS
- Very high abrasion resistance and high flowability
- Also processible by machine
- Environmentally friendly
- Fast curing and tension-relieved
- Decorative white or coloured surface
- Easy application

DESCRIPTION

Eco Rapid Deco is an innovative self-levelling design floor. Hardens fast and tension-relieved, at a layer thickness of 1–30 mm.

COLOUR

Original colour white; can also be coloured.

RANGE OF USAGE

Ideal for indoor use, for the revision of cementitious substrates. Applicable in layer thicknesses of 1–30 mm; for larger areas, approx. 3–5 mm is recommended.

STRENGTH AND CLASSIFICATION

Strength class, DIN EN 13813	CT-C40-F10
Compressive strength	approx. 40 N/mm²
Flexural strength	approx. 10 N/mm²
Abrasion resistance, Böhme	A12

LOADABILITY

Walkable	after 4 hours
Light load	1 day
Fully loadable	4 days

Curing at 20°C.

MIXING AND PROCESSING

Mixing ratio — unpigmented	6.0 L water / 25 kg powder
Mixing ratio — pigmented	5.5–6.0 L water / 25 kg powder
Processing temperature	min. +2 °C, max. +35 °C
Processing time at 20°C	approx. 30 min
Consumption	approx. 1.8 kg/m² per mm layer

DENSITY

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

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 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 (pull-off test min. 1.5 N/mm²). The substrate must be dry for priming and 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. Expansion joints must be adopted. For simultaneous work on substrates of changing absorbency, pre-level the surface for uniform colouring at 1 mm thickness using a toothed spatula or screed rake. For a second layer, the pre-levelled underground must be primed again (approximately 6 hours later), observing waiting times until the next coating.

MIXING AND APPLICATION

Add 6.0 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; maintain a 5-minute aeration time before application to minimise air bubbles. Large areas require a continuous mixing pump or semi-automatic charge mixer (approx. 4–6 minutes per 100 kg powder). Apply onto the primed surface and distribute with a pin leveller, screed rake or trowel, using a surface scraper to avoid processing marks; a thin spiked roller aids levelling and deaeration on single-coloured floors. For larger areas, a layer thickness of approximately 3–5 mm is recommended for optimal levelling and flatness tolerances per NBN ISO 7976-1. Protect the coating from too-quick drying (solar radiation, draft), frost and rain for the first 24 hours; do not cover the finished surface with foils or other materials. Use disposable overshoes to protect the surface until sealed against dirt and moisture.

Note concerning post-processing and coating protection

For higher abrasion or chemical resistance, a combined application of Eco Hydro Sil and Eco Hydro Glass, or Eco Topcoat Mat and/or Eco Topcoat Mono, is recommended.

PIGMENTATION

Add the pigment to the mixing water at the desired dosage, mixing intensively for 1 minute; single-coloured floors follow the standard steps above. For floors with two or more colours, avoid conventional tools (screed rake, spiked roller) that could affect the design concept — distribute the fresh mortar with a suitable trowel instead. Use only pigments suited to mineral flooring products, inorganic only, pre-tested for usability — do not use organic pigments or preparations. Liquid pigments are recommended for fast mixing and uniform colour distribution, at a maximum dosage of 0.5% of the ready-to-use mix (powder pigments: max. 2%); higher dosages reduce surface quality and workability time. With liquid pigment preparations, water can be reduced to 5.5 L for uniform colour distribution; for a cloudier finish, use the standard water amount.

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.

ECO RAPID DECO

Notes, safety and declaration of performance

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. This is a mineral/inorganic product; colours are not fully conformed to the RAL map and should only be treated as estimated classifications.

PACKAGING AND STORAGE

25 kg paper bag. 12 months in original packaging, in a dry and controlled temperate environment (not below 0°C, recommended 10–25°C). Reseal opened containers immediately.

SAFETY, ECOLOGY AND ELIMINATION

There is no mandatory hazard labelling for Eco Rapid Deco. 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 RAPID DECO · EN 13813

EN 13813 CT-C40-F10-A12

Innovative self-levelling design floor. Hardens fast and tension-relieved, at a declared layer thickness of 1–30 mm.

Fire behaviour	A1
Compressive strength	C40
Flexural strength	F10
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.

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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