ECO RAPID INDU

Self-levelling compound for industrial and decorative purposes

CT-C40-F10	40 N/mm²	A12	2–40 mm
STRENGTH CLASS · EN 13813	COMPRESSIVE STRENGTH	ABRASION RESISTANCE, BÖHME	LAYER THICKNESS

PROPERTIES AND BENEFITS

- Very low emission EMICODE EC1 PLUS
- Made with alternative materials with a low CO2 footprint
- Fast curing, crack- and shrinkage-free
- Non-hazardous material, allergy-free
- Very high adhesion, resistance to compression and bending/pulling
- Good chemical & saltwater resistance
- High mechanical load with strong abrasion
- Mixing with sand is possible
- Walkable after 4 hours and fully loadable after 4 days

DESCRIPTION

Eco Rapid Indu is a mineral self-levelling compound for industrial and decorative purposes.

COLOUR — NCS OR RAL

Natural mineral colour: light grey. 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

Ideal for all concrete and cement substrates inside buildings. Suitable for locations with high mechanical, chemical and abrasion stresses, such as floor coverings for warehouses, production areas, garages and hospitals. Smooth layers between 2–40 mm thick can be made with this product.

SLIP RESISTANCE

R 10	R 12
WITHOUT QUARTZ SAND	WITH QUARTZ SAND

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Technical information

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
Fully loadable, exterior	7 days

Curing at 20°C.

MIXING AND PROCESSING

Mixing ratio	4.75 L water / 25 kg powder
Processing temperature	min. +2 °C, max. +35 °C
Processing time at 20°C	approx. 35 min
Application thickness	2–40 mm
Consumption	approx. 1.8 kg/m² per mm layer

DENSITY

Bulk density	approx. 1.2 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

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 such as shot-blasting is recommended. Deeper ruptures must be filled with Eco Repair. The surface should 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; priming adjusts the absorbency of the substrate and avoids the rising of air bubbles during the subsequent coating. To guarantee this on critical undergrounds, a test area of 1 m² should be created, applying a further layer of primer if necessary; coating work on the primer must be finished within 6 hours. Expansion joints must be adopted. For simultaneous work on various substrates with changing absorbencies, the surface must be pre-levelled to maintain a uniform colouring, applying Eco Rapid Indu by toothed spatula or screed rake at a layer thickness of 1 mm. For application of the second layer, the pre-levelled underground must be primed again (approximately 6 hours later), observing waiting times until the next coating.

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Mixing, application and pigmentation

MIXING AND APPLICATION

First, add 4.75 litres of water per 25 kg powder material into the mixing container, then pour the powder in while stirring. For manual applications use a suitable handheld mixer with the respective mixing paddle and a proper thread adapter. Mix intensely for 2 minutes, leave to set for 2 minutes, then mix again for 1 more minute. Single mixing batches must be mixed fast and uniform, and the material poured out seamlessly within the workability time. With manual processing, maintain an aeration time of up to 5 minutes between the end of mixing and application to minimise rising air bubbles. The use of a continuous mixing pump or semi-automatic charge mixer is required for large areas (approx. 4–6 minutes per 100 kg powder). After mixing, apply Eco Rapid Indu onto the primed surface and distribute it with a pin leveller to the intended thickness, using a surface scraper to avoid processing marks in the fresh surface. For single-coloured floors a thin spiked roller can be used on the freshly laid mortar for better levelling and deaeration; consider the spikes to be long enough. For optimal levelling and to maintain flatness tolerances per NBN ISO 7976-1, a layer thickness of approximately 3–5 mm is recommended for larger areas. 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

To achieve higher abrasion resistance or chemical resistance, a combined application of Eco Hydro Sil and Eco Hydro Glass, or Eco Topcoat 2K Mat, is recommended.

COLOUR PIGMENTING

Eco Rapid Indu 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. 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.

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.

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Notes, safety and declaration of performance

NOTES ON COLOUR

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

PACKAGING AND STORAGE

25 kg paper bag. 12 months in original packaging, in a dry and controlled temperate environment (not below 0ºC, recommended 10–25ºC). Reseal opened containers immediately and use within a very short time.

SAFETY, ECOLOGY AND ELIMINATION

There is no mandatory hazard labelling for Eco Rapid Indu. 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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ETS Europe BVBA
Herentalsebaan 406 D1
BE – 2160 Wommelgem

NO. ECO RAPID INDU · EN 13813

EN 13813 CT-C40-F10-A12

Mineral self-levelling compound for industrial and decorative purposes.

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.

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.