# ECO RAPID

Self-levelling industrial floor

| CT-C50-F10 | 50 N/mm² | A9 | 2–50 mm |
|---|---|---|---|
| STRENGTH CLASS · EN 13813 | COMPRESSIVE STRENGTH | ABRASION RESISTANCE · BÖHME | LAYER THICKNESS |

## PROPERTIES AND BENEFITS

- High mechanical load
- Fast curing, crack- and shrinkage-free
- Non-hazardous material with no allergy potential
- Waterproof up to 1.5 bar
- Odourless
- Very high adhesion, compressive & tensile strength
- Good chemical & saltwater resistance
- Made with alternative materials with a low CO2 footprint
- Fulfils discharge capability requirements per DIN EN 61340-5-1
- Very low emission EMICODE EC1 PLUS
- Walkable after 4 hours & fully loadable after 4 days
- Also processible by machine

## DESCRIPTION

Eco Rapid is an innovative, eco-friendly self-levelling industrial floor. Hardens fast and tension-relieved, at a layer thickness of 2–50 mm.

## COLOUR — NCS OR RAL

Natural mineral colour: greige (between beige and 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-based indoor areas; outdoor use is also possible. Suitable for locations with high mechanical and chemical loads and high abrasion, such as industrial flooring, warehouses, production areas, garages and hospitals. Smooth layers between 2–50 mm; a layer thickness of approx. 3–5 mm is recommended.

## SLIP RESISTANCE

| R 10 | R 13 / V8 |
|---|---|
| WITHOUT QUARTZ SAND | WITH QUARTZ SAND |

# ECO RAPID

Technical information

## STRENGTH AND CLASSIFICATION

| | |
|---|---|
| Strength class, DIN EN 13813 | CT-C50-F10 |
| Compressive strength | approx. 50 N/mm² |
| Flexural strength | > 12 N/mm² |
| Abrasion resistance, Böhme | A9 |

## LOADABILITY

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

Curing at 20ºC.

## MIXING AND PROCESSING

| | |
|---|---|
| Mixing ratio | 4.5 L water / 25 kg powder |
| Processing temperature | min. +2 °C, max. +35 °C |
| Processing time at 20ºC | approx. 25 min |
| Consumption | approx. 1.8 kg/m² per mm layer |

## DENSITY

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|---|---|
| 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 dry and clean, free from separating agents; 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 concrete surface must be dry for priming, and dried for 2 hours after priming with Eco Primer; a 1 m² test area is recommended on critical undergrounds, with coating work on the primer finished within 6 hours. For simultaneous work on different substrates, apply a 1 mm layer first to avoid excessive colour and absorbency differences, waiting 6 hours before priming again. Prime again before the second layer to avoid bubbles, with expansion joints taken over. Protect ceilings, walls, windows and doors from dust and insects during the fresh mortar's setting.

# ECO RAPID

Mixing and application

## MIXING AND APPLICATION

Add 4.5 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 to the intended thickness, using a surface scraper to avoid processing marks; a thin spiked roller aids levelling and deaeration. For larger areas, a layer thickness of approximately 3–5 mm is recommended for optimal levelling 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 2K Mat, is recommended.

## 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

Notes, safety and declaration of performance

## COLOUR PIGMENTING — NCS OR RAL

Eco Rapid 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 one batch per section for a uniform colour.

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.

## PACKAGING AND STORAGE

25 kg bag. 12 months in original packaging, in a dry, moisture-free environment.

## SAFETY, ECOLOGY AND ELIMINATION

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

### EN 13813 CT-C50-F10-A9

Innovative and eco-friendly self-levelling industrial floor. Hardens fast and tension-relieved, at a declared layer thickness of 2–50 mm.

| | |
|---|---|
| Fire behaviour | A1 |
| Compressive strength | C50 |
| 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 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.