

TECHNICAL DATA SHEET

ECO RAPID DECO

Design Floor. A division of ETS Europe.



Silicate Systems

Date: 16/07/2017
Revision: 13/06/2023
Page: 1

PRODUCT INFORMATION

DESCRIPTION:

ECO RAPID DECO is an innovative self-leveling design floor. Hardens fast and tension-relieved with a layer thickness of 1 – 30 mm.

COLOR:

The original color of **ECO RAPID DECO** is white. It can be colored as well.



PROPERTIES AND BENEFITS

- Eco-Binder technology
- Environmentally friendly
- Mineral
- Fast curing and tension-relieved
- Very low emission EMICODE EC 1^{PLUS}
- Decorative white/colored surface
- Very high abrasion resistance and high flowability
- Easy application
- Also processible by machine.

RANGE OF USAGE

ECO RAPID DECO is ideal for indoor use, for the revision of cementitious substrates. It is applicable in layer thicknesses of 1 – 30 mm. For larger areas a layer thickness of approx. 3 - 5 mm is recommended.

TECHNICAL INFORMATION

Strength class	CT-C40-F10 according to DIN EN 13813	Mixing ratio Unpigmented Pigmented	Per 25 kg powder 6.0 L 5.5 – 6.0 L
Abrasion resistance according to Böhme	A12	Strength Compressive strength Flexural strength	approx. 40 N/mm ² approx. 10 N/mm ²
Processing temperature	Min. +2 °C, max. +35 °C	Processing time at 20°C	approx. 30 min
Application thickness	1 - 30 mm	Consumption	approx. 1.8 kg / m ² and mm layer thickness

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Page: 2

Loadability Walkable Light load Fully loadable	Curing at 20°C after 4 hours 1 day 4 days	Density Bulk density Fresh mortar density	approx. 1.1 kg/dm ³ approx. 2.0 kg/dm ³
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The information above is given based on our experiences. 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 e.g. shot-blasting is recommended. Deeper ruptures must be filled with **ECO REPAIR**. The surface should be permanently vibration-free and crack-free. Already existing cracks must be repaired professionally. The pull of test should be min. 1.5 N/mm². The substrate has to be dry for priming, and dried for 2 hours after priming with **ECO PRIMER**. By priming the surface the absorbency of the substrate is adjusted. This avoids the rising of air bubbles during the subsequent coating. In order to guarantee this on critical undergrounds, a test area of 1m² should be created. Apply a further layer of primer if necessary. The coating work on the primer has to be finished within 6 hours. Please refer to the technical data sheet of **ECO PRIMER** for more information. Expansion joints have to be adopted. For simultaneous work on various substrates with changing absorbencies the surface has to be pre-leveled to maintain a uniform coloring. For this purpose **ECO RAPID DECO** is applied by a toothed spatula or a screed rake. The layer thickness should be 1 mm. For application of the second layer the pre-leveled underground has to be primed again. The Primer can be applied approximately after 6 hours. Observe waiting times until the next coating.

MIXING AND APPLICATION

First, add 6.0 liters of water per 25 kg powder material into the mixing container. Then pour the powder inside while stirring. For manual applications use a suitable handheld mixer. We recommend using the mixing paddle COLLOMIX DLX 152 HF. By using the respective mixing paddle, a proper thread adapter must be used. The material must be mixed intensely for 2 minutes, left to set for 2 minutes, and then mixed again for 1 more minute. Single mixing batches must be mixed fast and uniform. The material has to be poured out seamlessly within the workability time. With manual processing an aeration time of up to 5 minutes has to be maintained between the end of the mixing time and application of the material. This minimizes rising of air bubbles within the poured material. The use of a continuous mixing pump or a semi-automatic charge mixer is required for large areas. Mixing time for the semi-automatic charge mixer is approximately 4 to 6 minutes per 100 kg powder.

After mixing, apply **ECO RAPID DECO** onto the primed surface and distribute it with a pin leveler, screed rake or trowel to the intended thickness. In order to avoid processing marks in the fresh surface use a surface scraper to smoothen the surface. For single-colored 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 leveling of the fresh mortar and in order to maintain the flatness tolerances according to NBN ISO 7976-1 it is recommended to use a layer thickness of approximately 3 – 5 mm for larger areas. Thereby the required layer thickness depends on the surface quality of the substrate which has to be coated.

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Page: 3

The coating has to be protected from too quick drying (solar radiation, draft), frost and rain for the 1st 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 a higher abrasion resistance or chemical resistance we recommend a combined application of **ECO HYDRO SIL** and **ECO HYDRO GLASS** or **ECO TOPCOAT MAT** and or ECO TOPCOAT MONO Please refer to the respective data sheets for more information.

PIGMENTATION

The respective pigment is added to the mixing water in the desired dosage. The pigment has to be mixed intensively for 1 minute. In case of single colored floors all further steps are carried out as described above. For floors with two or more colors conventional tools (Screed rake, spiked roller, etc.) should not be used due to the possible influence on the design concept. Without using these tools the fresh mortar has to be distributed with a suitable trowel.

The used pigments should be suitable for mineral flooring products. The usability of specific pigments should be pretested. Generally, only inorganic pigments should be used. Do not use organic pigments or pigment preparations. For fast mixing and uniform color distribution we recommend liquid pigments.

In case of liquid pigments do not exceed the maximum dosage of 0.5% referred to the ready-to-use mix. In case of powder pigments a maximum dosage of 2% is recommended. Higher dosages lead to a decreased overall surface quality and to shorter workability times. By using liquid pigment preparations, the used amount of water can be reduced down to 5.5 L to ensure a uniform color distribution. For a cloudier finish (not possible with all pigments) use the standard amount of water as stated in the table.

TOOLS AND CLEANING

Mixing device (drill mixer or pump), trowel, spiked shoes, spiked roller and screed rake or pin leveler.

All equipment should be washed clean and dried before and after application.

PACKAGING AND STORAGE

Packaging: 25 kg paper bag

Storage: 12 months in original packaging and in a dry and controlled temperate environment (not below 0 °C, recommended 10 – 25 °C). Reseal opened containers immediately and use within a very short time.

SAFETY, ECOLOGY AND ELIMINATION

There is no mandatory hazard labeling for **ECO RAPID DECO**. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process. Please refer to the Material Safety Data Sheet (MSDS) which can be requested on www.ets-europe.be for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

NOTES

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Some minor color differences are inevitable due to different production batches. This should be taken into account while performing work. It is necessary to work on designated sections with the same batch (see label) if a uniform color is desired. Due to different water addition during application or changing working techniques light color shades in the coating surface can occur. Please take note that this coating is a mineral/inorganic product. Product colors are not fully conformed to the RAL-Map and therefore they should only be seen as estimated classifications.

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. The technical data sheet can be requested on www.ets-europe.be.



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20

No. ECO RAPID DECO

EN 13813

EN 13813 CT-C40-F10-A12

Innovative self-leveling design floor.
Hardens fast and tension-relieved with a
layer thickness of 1 - 30 mm

Fire behavior	A1
Compressive strength	C40
Flexural strength	F10
Release of corrosive substances	CT

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