

TECHNICAL DATA SHEET

Self-Levelling ECO Mortar

Standard Leveling Mortar for indoor use. A division of ETS Europe.

PRODUCT INFORMATION

DESCRIPTION:

Eco SL MORTAR is a very thin, Eco Friendly liquid mineral floor-levelling compound based on a new binder system. With a layer thickness of between 2-40mm, this indoor easy to use, stress free, self-levelling product cures quickly to form a smooth surface that can be processed by hand or by machine.

PROPERTIES AND BENEFITS

- Ideal for floor leveling;
- Environmentally friendly;
- 100% mineral;
- Low stress & crack-free hardening;
- Good adhesion, compressive and tensile strength;
- High flowability;
- Directly useable & hard surface;
- Made with alternative materials that have a low CO2 footprint (very low emission);
- Mixable with sand for greater layer thickness & a broader range of applications
- Solvent free, VOC-free, odorless;
- Easy application;
- Also, processible by machine.

RANGE OF USAGE

Used to smoothen rough and uneven concrete and cement screed areas in the interior area. Also ideal for smoothening surfaces before laying carpets, laminate, parquet, PVC flooring or linoleum. Due to its hardness, it can also be used directly in garages, factories, basements and so on. For exterior use: only in combination with subsequent moisture protection.

PROCESSING TIME

Ambient temperature	Minutes
10 °C	Approx. 45
20 °C	Approx. 30
30 °C	Approx. 20
40 °C	Approx. 15

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TECHNICAL INFORMATION

Property	Unit and specification	Property	Unit and specification
Strength class	CT-C35-F5 according to DIN EN 13813	Mixing ratio	5.25-5.5l water per 25 kg powder
Abrasion resistance according to BCA According to Bohme	AR 0,5 A22	Consumption	Approx. 1.7 kg/m ² and mm layer thickness
Processing temperature	Min. +5 °C, max. +45 °C Floor temperature must be at least 3 °C above the dew point.	Compressive strength	Approx. 35 N/mm ²
Processing time	Approx. 30 min at 20°C	Flexural Strength	Approx. 5 N/ mm ²
Application thickness	2-40 mm Up to 50 mm if mixed with 0.5 – 1.0 mm quartz sand	Bulk density	Approx. 1.3 kg/dm ³
Load ability: Walkable Light load Fully loadable	Curing at 20 °C After 4 hours 1 day 4 days	Fresh mortar density	Approx. 2.0 kg/dm ³

The given information is based on our experiences.

PREPARATION OF SUBSTRATE

Prior to coating, ensure that the surface is 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 pull-of test needs to be at least 1,5 N/mm². The substrate has to be dry for priming and dried for 2 hours after priming. 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 primer must be finished within 6 hours. Expansion joints must be adopted.

For the use of ECO SL MORTAR as a final coat and simultaneous work on various substrates with changing absorbencies the surface must be pre-leveled to maintain a uniform coloring. For this purpose, ECO SL MORTAR 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 must be primed again. The Primer can be applied approximately after 4 hours. Observe waiting times until the next coating.

MIXING AND APPLICATION

Eco Mortar sl is a dry powder. First, add 5.25- 5.5 liters of water per 25 kg powder material into the mixing container. Then pour Eco Mortar inside while stirring.

We recommend the use of a drill mixer like COLLOMIX DLX 152 HF is recommended. The material must be mixed intensely for 2 minutes, left to set for 2 minutes, and then mixed again for 1 more minute. The use of a

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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 SL MORTAR onto the primed surface and distribute it with a pin leveler, screed rake or trowel. Use a spiked roller on the freshly laid mortar for better adhesion and texture. For thin layer processing (5 mm and below), the amount of water can be increased to 5 liters per 25 kg bag. Quartz sand (0.5 – 1.0 mm) can be added to the mixture in a 2:1 ratio to fill gaps and achieve layer thicknesses of up to 50 mm. Mix 25 kg of SL MORTAR homogeneously with water. Stir in 12.5 kg of quartz sand towards the end of the mixing process. Do not add additional water and apply directly. With manual processing an aeration time of 5 minutes must 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 coating must be protected from too quick drying (due to drafts or intense heat from the sun) for at least 24 hours. Do not cover the finished surface with foils or other materials.

Note concerning post-processing and coating protection: For the use of ECO SL MORTAR as a final coat it is recommended to apply a suitable surface protection system. 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 2k of Eco Topcoat Mono. Please refer to the respective data sheets for more information.

HEATED FLOOR CONSTRUCTIONS

For applications on heated floor constructions the underfloor heating system must be downregulated to approx. 20°C at least 3 days before application. 48 hours after application the flow temperature can be increased stepwise to the desired value (increase of 5°C per day). This information only applies for Eco Mortar sl. For the subsequent laying of other coverings on the levelling layer, please refer to the respective manufacturer instructions.

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: Original packing is storable for 12 months in dry and controlled temperate areas (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 SL MORTAR. 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.

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least 24 hours. Some minor color differences are inevitable due to different production batches. This should be considered 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 product.

Product colors are not fully conformed to the RAL-Map and therefore they should only be estimated classifications.



EN 13813	
EN 13813 CT-C35-F5-AR0.5	
Self-leveling industrial floor. Hardens fast and tension-relieved with a layer thickness of 2 - 40 mm.	
Fire behavior	A1
Compressive strength	C35
Flexural strength	F5
Release of corrosive substances	CT

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. 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 must 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 must 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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