

# TECHNICAL DATA SHEET

## Self Levelling ECO RESIST

Industrial Floor System. A division of ETS Europe.

### PRODUCT INFORMATION

#### DESCRIPTION:

**ECO RESIST** is a self-levelling industrial floor for high chemical and abrasive load. It hardens fast and is tension-relieved with a layer thickness of 2-50 mm.

### PROPERTIES AND BENEFITS

- Eco-Binder technology ;
- **Good chemical (pH 3-14)**
- Salt water resistance ;
- Environmentally friendly
- very low emission EC 1PLUS R
- Mineral
- Fast curing and tension-relieved ;
- VOC and APEO-free ;
- Fulfills the requirements for discharge capability according to DIN EN 61340-5-1 ;
- Waterproof up to 2.5 bar ;
- Fire-resistant up to 700°C ;
- Very high abrasion resistance
- Easy application
- Also processible by machine.

### RANGE OF USAGE

**ECO RESIST** is ideal for indoor and outdoor use, as coating for areas with high mechanical and chemical load like garages, warehouses, production areas, airports and power plants. It is applicable in layer thicknesses of 2 – 50 mm, for larger areas a layer thickness of approx. 2 – 5 mm is recommended.

### TECHNICAL INFORMATION

<b>Strength class</b>	CT-C50-F10 according to DIN EN 13813	<b>Mixing ratio</b>	4.25 – 4.5 l water per 25 kg powder
<b>Abrasion resistance according to Böhme</b>	A15	<b>Strength</b> Compressive strength Flexural strength	approx. >50 N/mm <sup>2</sup> approx. >10 N/mm <sup>2</sup>
<b>Processing time at 20°C</b> <b>Processing temperature</b>	approx. 40 min Min. +5 °C, max. +35 °C	<b>Slip resistance</b> Without quartz sand	R 10

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<b>Application thickness</b>	2 - 50 mm	With quartz sand	R 13
<b>Load ability</b> Walkable / Ready for covering Light load Fully loadable Fully loadable in exterior areas	Curing at 20°C after 6 hours  1 day 4 days 7 days	<b>Consumption</b>   <b>Density</b> Bulk density Fresh mortar density	approx. 2.0 kg / m <sup>2</sup> and mm layer thickness   approx. 1.1 kg/dm <sup>3</sup> approx. 2.2 kg/dm <sup>3</sup>

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. The surface should be permanently vibration-free and crack-free. Already existing cracks must be repaired professionally. 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 1m<sup>2</sup> 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 RESIST 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**

Mix the material by using a mixing machine. Fill into the mixing container the required amount of water (4.25 – 4.5) liters per 25kg powder material), followed by powder material while stirring. We recommend the use of a Collomix DLX mixing paddle. The material has to be mixed intensely for 2 minutes, left to set for 3 minutes, and then mixed again for 1 more minute. At the beginning of the mixing process the mortar is slightly creamy. Do not add water at this stage because the material becomes more liquid after the setting time. We recommend the use of Duo-Mix 2000 or a semi-automatic charge mixer for large areas. Mixing time for 100kg of powder requires 4 - 6 min.

After mixing, apply **ECO RESIST** onto the primed surface and distribute it with a pin leveler, screed rake or trowel to the intended thickness. Roll the fresh surface with a spiked roller. Consider the spikes to be long enough. 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.

**Note:** The application has to be protected from drying too quickly (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.

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**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 2 K. Please refer to the respective data sheets for more information.

### **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 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 RESIST. 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](http://www.ets-europe.be) for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

It is necessary to work on designated sections with the same batch (see label) if a uniform color is desired. This should be taken into account while performing work. Please take note that this colored coating is a mineral/inorganic product. 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.

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<b>EN 13813</b>	
<b>EN 13813 CT-C50-F10-A15</b>	
Self-leveling industrial floor. Hardens fast and tension-relieved with a layer thickness of 2 - 50 mm.	
Fire behavior	A1
Compressive strength	C50
Flexural strength	F10
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 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](http://www.ets-europe.be).

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