

TECHNICAL DATA SHEET

Self Levelling ECO RAPID SL

Industrial Floor System. A division of ETS Europe.



Silicate Systems

Date : 01/01/2017
Revision : 25/02/2020
Page : 1

PRODUCT INFORMATION

DESCRIPTION:

ECO RAPID SL is an innovative and Eco-friendly self-levelling industrial floor. It hardens fast and is tension-relieved with a layer thickness of 2-50 mm.

COLOR:

The original color of ECO RAPID SL is light grey. A variety of other colors is available.

PROPERTIES AND BENEFITS

- High mechanical load
- Good chemical & salt water resistance
- Fast curing, crack & shrinkage free
- Made with alternative materials that have a low CO2 footprint GEV-EMICODE EC1 Plus
- Non-hazardous material with no allergy potential
- Fulfills the requirements for discharge capability according to DIN EN 61340-5-1
- Waterproof up to 1.5 bar
- Solvent free, VOC-free, odorless
- Walkable after 4 hours & fully loadable after 2 days
- Very high adhesion, compressive & tensile strength
- Also process able by machine

RANGE OF USAGE

ECO RAPID SL is ideal for all concrete and cement based indoor areas. Outdoor use is also possible. It is suitable for locations with high mechanical, chemical loads and high abrasion such as industrial floorings, warehouses, production areas, garages and hospitals. Smooth layers between 2 and 50 mm, a layer thickness of approx. 3-5 is recommended.

TECHNICAL INFORMATION

Property	Unit and specification
Mixing ratio	4.0 – 4.5 l water per 25 kg powder Increase water ratio consistently to avoid color fluctuation.
Strength class	CT-C40-F10 according to DIN EN 13813
Abrasion resistance according to BCA	AR 0,5

Headoffice

ETS Europe T: +32 (0) 3 227 28 58
Herentalsebaan 406 D1 F: +32 (0) 3 475 16 66
2160 Wommelgem E-mail: info@ets-europe.be
Belgium www.ets-europe.be



TECHNICAL DATA SHEET

Self Levelling ECO RAPID SL

Industrial Floor System. A division of ETS Europe.



Silicate Systems

Date : 01/01/2017
Revision : 25/02/2020
Page : 2

Abrasion resistance according to Bohme	A 15
Processing temperature	Min. +5°C, max. +35°C
Processing time	Approx. 40 min at 20°C
Application thickness	Thin layer 2-50 mm
Compressive strength	> 40 N/mm ²
Flexural strength	Approx. 12 N/mm ²
Slip resistance without quartz sand	R 10
Slip resistance with quartz sand	R 11
Bulk density	Approx. 1.1 g/cm ³
Fresh mortar density	Approx. 2.0g/cm ³
Consumption	Approx. 1.8kg/m ² and mm application thickness (powder material).
Load capacity	Curing at 20°C
Walkable/ ready for covering:	After approx. 4 hours
Light load:	After 1 day
Fully loadable:	After 4 days
Fully loadable in exterior areas:	After 7 days

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 process, ensure that the surface is dry and clean and free from all kinds of separating agents. Mechanical surface preparation for example shot-blasting is recommended. Deeper ruptures must be filled with ECO Repair. The pull of test should be min 1.5 N/mm². For priming the concrete surface must be dry. The substrate must be 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 primer must be finished within 6 hours.

For simultaneous work on different substrate apply first a 1 mm layer this is to avoid too much different coloring and absorbencies and wait 6 hours before priming again.

Before the second layer please prime again to avoid bubbles, expansion joints are to take over. Prepare ceilings, walls, windows and doors suitable for the decorative fresh mortar surface and protect it from dust and insects.

MIXING AND APPLICATION

Mix the material by using a mixing machine. Fill into the mixing container the required amount of water (4.0 – 4.5) liters per 25 kg powder material which is between 16 & 18%), followed by powder material. We recommend the use of a mixing paddle with U-shape of approximately 20 cm width while mixing with the drilling machine. The material must be mixed for 2 minutes intensely. Mix for another minute intensely again, after a short setting time of 3 minutes. We recommend the use of Duo-Mix 2000 or a semi-automatic charge mixer for large areas. Mixing time for 100 kg of powder requires 4-6 min.

Headoffice

ETS Europe T: +32 (0) 3 227 28 58
Herentalsebaan 406 D1 F: +32 (0) 3 475 16 66
2160 Wommelgem E-mail: info@ets-europe.be
Belgium www.ets-europe.be



TECHNICAL DATA SHEET

Self Levelling ECO RAPID SL

Industrial Floor System. A division of ETS Europe.



Silicate Systems

Date : 01/01/2017

Revision : 25/02/2020

Page : 3

Apply **ECO RAPID SL** on to the processed ECO PRIMER after mixing and distribute it, using screed rake or trowel to the intended thickness. Roll the fresh surface with a spiked roller. Consider the spikes to be long enough.

The coating has to be protected from too quick drying (no draft) for at least 24 hours. The surface should not be stepped on for at least 24 hours. Use disposable overshoes or foil to protect the surface until it is sealed against dirt and moisture. We recommend ECO Topcoat or HYDRO SIL & HYDRO GLASS in combination if more acid and abrasion resistance is needed for sealing purpose.

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 bag

Storage: 12 months in original packaging and in a dry, moisture-free environment.

SAFETY, ECOLOGY AND ELIMINATION

Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process. Please refer to the Material Safety Data Sheet (MSDS) 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.

Headoffice

ETS Europe T: +32 (0) 3 227 28 58
Herentalsebaan 406 D1 F: +32 (0) 3 475 16 66
2160 Wommelgem E-mail: info@ets-europe.be
Belgium www.ets-europe.be



TECHNICAL DATA SHEET

Self Levelling ECO RAPID SL

Industrial Floor System. A division of ETS Europe.



Silicate Systems

Date : 01/01/2017

Revision : 25/02/2020

Page : 4



EN 13813	
EN 13813 CT-C40-F10-AR0,5	
Self-leveling industrial floor. Hardens fast and tension-relieved with a layer thickness of 2 - 50 mm.	
Fire behavior	A1
Compressive strength	C40
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 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.

Headoffice

ETS Europe T: +32 (0) 3 227 28 58
Herentalsebaan 406 D1 F: +32 (0) 3 475 16 66
2160 Wommelgem E-mail: info@ets-europe.be
Belgium www.ets-europe.be

