

**IFA**

Institut für Arbeitsschutz der
Deutschen Gesetzlichen Unfallversicherung
Prüf- und Zertifizierungsstelle im DGUV Test

Datum/Date: 04.01.2021-OM/Cey/st-

PRÜFZEUGNIS **TEST CERTIFICATE**

Nr./No.: 2021 20111/3210

über die Prüfung der Rutschhemmung von Bodenbelägen
slip resistance test of floorings

- | | |
|---|--|
| 1 Auftraggeber/
Customer | ETS EUROPE BVBA
Herentalsebaan 406/Unit D1
2160 Wommelsgem
Belgien |
| 2 Prüfmuster/
Test specimen | Mineralische Bodenbeschichtung
Typ / type: ECO RAPID INDU mit ca. 0,6 kg/m ² Quarzsand
der Sieblinie (0,2 - 1,0) mm |
| 2.1 Hersteller/
Manufacturer | ETS EUROPE BVBA |
| 2.2 Bauart, Bezeichnung/
Type, designation | Selbstverlaufende Bodenbeschichtung,
entsprechend beiliegender Verlegeanleitung |
| Kennzeichnung/
Marking | .- |
| 2.3 Bestimmungsgemäße
Verwendung/
Intended use | Einsatz in Arbeitsräumen und Arbeitsbereichen mit Rutschgefahr
<i>Use in working areas with slipping hazards</i> |
| 2.4 Datum der Herstellung/
Date of fabrication | .- |
| 2.5 Weitere Angaben/
Further details | Form und Größe / size (mm): fugenlos

Farbe / colour: grau

Oberfläche / surface: eben, matt,
körnig strukturiert |

3 Prüfung/ Testing

3.1 Art der Prüfung/
Type of test Baumusterprüfung vom 09.01.2018
(Prüfzeugnis Nr. 201820111/3210 vom 12.01.2018)

3.2 Datum der Prüfung/
Date of testing Umschreibung vom 04.01.2021

3.3 Prüfverfahren, -grundlagen/
Test method, requirements DIN 51130 (02.2014) und ASR A1.5/1,2

Prüfergebnis / test result:

Gesamtmittelwert des Neigungswinkels 28,8 °
Total mean of inclination angle

Gesamtmittelwert des Verdrängungsraums: -,- cm³/dm²
Total mean of displacement volume:

4 Beurteilung, Eignung/ Assessment, suitability (Besondere Hinweise/ Special remarks)

Bewertungsgruppe für die Rutschhemmung: R 12
Evaluation group of slip resistance:

Bewertungsgruppe für den Verdrängungsraum: V -,-
Evaluation group of displacement volume:

Prüfstellen / testing institute:

Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung - IFA, Sankt Augustin

Hinweis / Remark:

Die Verlegeanleitung ist Bestandteil dieses Prüfzeugnisses.

The installation guide is part of this test certificate.

Dieses Prüfzeugnis gilt nur in Verbindung mit einem bezeichneten Bodenbelagsmuster.

This certificate is only valid in connection with the indicated flooring sample.

5 Gültigkeit des Prüfzeugnisses/ Validity of Test Certificate

Dieses Prüfzeugnis gilt, solange die zugrundeliegenden sicherheitstechnischen Anforderungen (3.3) gelten, für alle mit dem Prüfmuster identischen Erzeugnisse, die gefertigt werden bis zum:
As long as the underlying safety-technical requirements (3.3) are in force, the present Test Certificate applies to all products equal to the test specimen and manufactured at the latest on:

11.01.2023

Die Identität der Erzeugnisse mit dem Prüfmuster wird von der Prüfstelle nicht überwacht.
Conformity with the test specimen will not be verified by the testing institute.

**6 Allgemeine Hinweise/
General remarks**

Dieses Prüfzeugnis besteht aus
The present Test Certificate consists of

3

Seiten.
Pages.

Die Seiten 1 bis 3 enthalten das Gesamtergebnis der Prüfung, sie dürfen nur ungekürzt veröffentlicht werden.

Pages 1 to 3 indicate the overall test result; they shall only be published with the full wording being quoted.

Dieses Prüfzeugnis berechtigt n i c h t zur Verwendung des GS-Zeichens, DGUV Test-Zeichens oder CE-Zeichens.

The present Test Certificate does n o t warrant the use of the GS-label, DGUV Test-label or CE-mark.

Im Übrigen gilt die Prüf- und Zertifizierungsordnung der Prüf- und Zertifizierungsstellen im DGUV Test in Verbindung mit den Allgemeinen Geschäftsbedingungen der Deutschen Gesetzlichen Unfallversicherung e.V.

In all other respects the Rules of Procedure for Testing and Certification carried out by the Test and Certification Bodies in DGUV Test shall apply in conjunction with the General Business Conditions of the Deutsche Gesetzliche Unfallversicherung e.V.

Für die Beurteilung
For the assessment

Für die Prüfung
For the testing



Dipl.-Ing. Olaf Mewes
Fachzertifizierer(in)
Certification officer



Orhan Ceylan
Leiter(in) des Prüflabors
Head of Testlaboratory

TECHNICAL DATA SHEET

ECO RAPID INDU SL

Mass of industrial and decorative equalization. A division of ETS Europe.



Silicate Systems

Date : 01/09/2017
Revision : 25/02/2020
Page : 1

PRODUCT INFORMATION

DESCRIPTION:

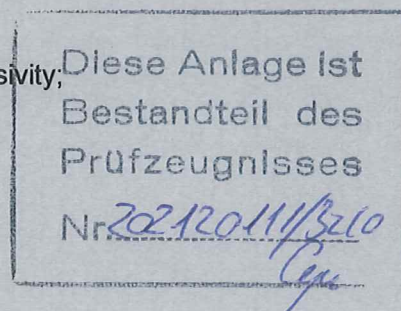
ECO RAPID INDU SL is a mass product of industrial and decorative equalization. The system is innovative, the self-levelling mortar is of mineral type.

COLOR:

The original Color of ECO RAPID INDU SL is light gray. A variety of other colors is available.

PROPERTIES AND BENEFITS

- Solvent-free, VOC-free, odorless;
- Good chemical & salt water resistance;
- Made with alternative materials that have low CO2 emissivity;
- High mechanical load with strong abrasion;
- Fast curing, crack- and shrinkage-free;
- Mixing with sand is possible;
- Non-hazardous material, allergy-free;
- Walking after 4 hours and fully solicited after 4 days;
- Very high adhesion, resistance to compression and bending/pulling.



RANGE OF USAGE

ECO RAPID INDU SL is ideal for all concrete and cement substrates inside buildings. It is suitable for locations with high mechanical, chemical and abrasion stresses such as floor coverings for warehouses, production areas, garages and hospitals.

Smooth layers between 2 and 40 mm thick can be made with this product.

TECHNICAL INFORMATION

Strength class	CT-C40-F7 according to DIN EN 13813	Mixing ratio	Per 25 kg powder
		Unpigmented	4.75 L
		Pigmented	4.3 – 4.5 L
Abrasion resistance according to BCA	AR0,5	Strength	
according to Böhme	A22	Compressive strength	approx. 40 N/mm ²
		Flexural strength	approx. 8.5 N/mm ²
Processing time at 20°C	approx. 40 min	Slip resistance	
Processing temperature	Min. +5 °C, max. +35 °C	Without quartz sand	R 10

Head office

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		With quartz sand	R 12
Application thickness	2 - 40 mm	Consumption	approx. 1.8 kg / m ² and mm layer thickness
Loadability	Curing at 20°C	Density	approx. 1.2 kg/dm ³ approx. 2.0 kg/dm ³
Walkable / Ready for covering	after 4 hours		
Light load	1 day		
Fully loadable	4 days		
Fully loadable in exterior areas	7 days		

The information above is given based on our experiences. Adjustment may be required in case of object specific fluctuations.

PREPARATION OF SUBSTRATE

Before the coating process, make sure the surface is dry, clean and free of all kinds of mold release agents. Mechanical surface preparation:

Shot blasting is recommended. The adhesion strength of the substrate should be min 1.5 N / mm². For good adhesion, the concrete surface must be dry. The substrate must be dried for 2 hours after installation with ECO PRIMER.

Fast drying and resistant to abrasion; Expansion joints must be respected in the base layer. Prepare ceilings, walls, windows and doors before applying the decorative surface of fresh mortar and protect against dust and insects.

MIXING AND APPLICATION

Unpigmented mortar:

Mix the material using a mixing machine. Fill in the mixture. Contain the required amount of water (4.75 liters per 25 kg powder material that is 19%), followed by a powder material. We recommend the use of a mixing pallet with U - shape about 20 cm wide while mixing with the suitable mixer. The material should be mixed for 2 minutes intensely. Mix for another minute intensely again after a time of 3 min. We recommend the use of a Duo - Mix 2000 pump or an automatic load semi - mixer for large areas. Mixing time for 100 kg of powder requires 4 - 6 min.

Apply **ECO RAPID INDU SL** on treated ECO PRIMER after mixing and distributing by use of screed or trowel rake to the desired thickness. Use a spiked roller to loosen the product. Make sure the jammer rollers are long enough. The coating must be protected for at least 24 hours. Subsequent treatment and protection of the coating; the surface must not be able to move for at least 24 hours.

Use disposable overshoes to protect the surface until sealed against dirt and moisture.

We recommend ECO HYDRO GLASS or ECO TOPCOAT MAT or Gloss for sealing purposes.

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Diese Anlage ist
Bestandteil des
Prüfzeugnisses

Nr. 20212011/810



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Pigmented mortar:

Using liquid pigment preparations, the required amount of water has to be reduced to 4.3 – 4.5 L. The respective pigment is added to the mixing water in the desired dosage (max. 0.5%). 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. An aeration time of up to 5 minutes has to be maintained between the end of the mixing time and application of the material.

TOOLS AND CLEANING

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

It is necessary to work on designated sections with the same lot (see label) if a uniform color is desired. This colored coating is a mineral / inorganic product. The colors of the product do not comply with the color chart RAL - 25 kg netto.

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.



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EN 13813

EN 13813 CT-C40-F7-AR0,5

Self-leveling industrial floor. Hardens fast and tension-relieved with a layer thickness of 2 – 40 mm.

Fire behavior	A1
Compressive strength	C40
Flexural strength	F7
Release of corrosive substances	CT

Diese Anlage ist
Bestandteil des
Prüfzeugnisses

Nr. 202120111/3210

The content of this technical data sheet corresponds to the latest development and our applications experience. All other details can be confirmed by ETS-Europe. The correct and therefore successful application of our products is not within our control. Therefore, a guarantee can be given only for the quality of our products. This technical data sheet replaces all earlier technical data on this product. Our employees and/ or distributors going beyond the information provided in this data sheet, must have a written confirmation. We reserve the right to change the product specifications due to technical progress.

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