

HYGROSMART® - SLU - RAPID

Quick Setting, Non-shrink, Self-Levelling Underlayment Cement Screed

DESCRIPTION

HYGROSMART®-SLU-RAPID is a one component, ready to use, cementitious product, based on high-strength cement, aggregates and special enhancing additives for fast and easy self levelling coating of floors. It provides strong adhesion and excellent rheology to any mineral substrate.

RECOMMENDED FOR

- Filling and leveling of cavities.
- Creating flat and durable surfaces on the existing concrete, ceramic, mosaic floors, natural stone etc.
- Floors where wooden floors, plastic tiles, or carpet are to be fixed.
- Industrial buildings, where the product can be completely uncovered and be painted.
- Floor preparation prior to installing tiles, wall-to-wall carpeting, wooden or plastic floors glued or not.
- Installations of underfloor heating systems

FEATURES AND BENEFITS

- Excellent workability
- Exquisite rheology
- Perfectly smooth surface
- Non-shrink
- Easy and rapid to apply
- Strong adhesion to substrate

- Rapid development of compressive, flexural and abrasion strengths

LIMITATIONS/OBSERVATIONS

- Apply only to sound, prepared substrates.
- Do not add water over recommended dosage.
- Avoid application in direct sun and/or strong wind and/or rain.
- Do not add lime, cement or gypsum to the mix.
- Do not use on metal surfaces.
- The temperature of the screed and elements coming in contact with the grout should be between the range of +5°C to +30°C.
- Do not use as an unbonded screed.
- The content of the bag should be protected from humidity.
- Do not use for exterior levelling works.

APPLICATION

- The substrate onto which the product is to be applied should be completely cleaned and free from dust, loose material, grease etc. It should also be stable (strong, sound) and without any cracks and gaps.
- Surface irregularities or cracks should also be filled with **EPOXY RESIN-21-T** or **HYGROSMART®-BUILDING-F**.

Certified quality, environmental and occupational health & safety management systems:
ISO 9001/14001 & ISO 45001.

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- The surface should be better poured with water or primer before applying the product. If you use primer, wait until the primer is dry before applying the product.
- Add the content of **HYGROSMART®-SLU-RAPID** (25kg) in 4.5 – 4.75kg water and agitate constantly, until a homogeneous, lump-free mixture is obtained. It is recommended to mix with an electric mixer at low speed (300 rpm).
- As the pot life is affected by the temperature conditions, make sure that the temperature of the product and water are between the range of +20°C to +25°C.
- Let the mixture set for 2-3 minutes and stir again.
- Starting from a corner, spread the screed on the prepared floor using a wide notched trowel, and distribute it evenly on the entire floor.
- Remove any entrapped air using a wide, stiff street broom or a spiked floor roller.

CONSUMPTION

Depending on the substrate roughness and thickness of layer applied. As a guide: ~ 1.7kg/m² per 1mm thickness.

PACKAGING

25 kg Bags. **Color:** Grey powder

STRENGTH DEVELOPMENT

The developed strength depends on many factors such as water addition, mixing, temperature, humidity. The table presented below shows the average strength of **HYGROSMART®-SLU-RAPID** at 25°C, when mixed with 4.75 liters water per 25kg of the product.

For the measurement of compressive strength and flexural strength 40 x 40 x 160mm prisms were used.

Days	Compressive strength (N/mm ²)	Flexural strength (N/mm ²)
1 day	>20	>4
7 days	>27	>6
28 days	>33	>8

CLEANING

Clean all the tools with plenty of water after use. Hardened material can only be removed by mechanical means.

SHELF LIFE

Can be kept for 12 months in the original unopened bags in dry places and at temperatures of 5-25°C.

SAFETY INFORMATION

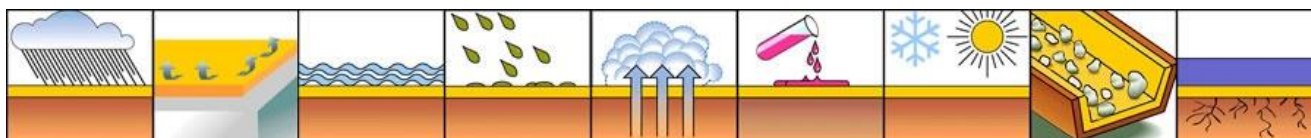
The product contains Portland cement. The MSDS (Material Safety Data Sheet) is available on request.

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TECHNICAL SPECIFICATIONS

PROPERTY	UNITS	RESULT
Color/Consistency	-	Grey powder
Water requirement	%	18-19
Density of dry mix	Kg/lit	1,5 ± 0,2
Density of wet mix	Kg/lit	2,1 ± 0,2
pH	-	12-13
Flexural strength (After 28 days)	MPa	>8
Compressive strength (After 28 days)	MPa	>33
Pot life (at 20°C)	min	>20
Setting time	min	50-70
Light foot traffic	hours	3
Time elapsed before laying flooring	days	1-3
Resistance to abrasion after 28 days with Taber Abrasimeter (1250g - 200rpm)	Weight loss (g)	1

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