

Technical Datasheet

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RASOCHIM MICRO

Rapid-setting thixotropic cementitious skim coat for leveling substrates from 0 to 10 mm thickness.



Description

Product with very low emission of volatile organic compounds (VOC), compliant with EC1PLUS classification according to the EMICODE protocol and A+ class according to French indoor air quality regulations.

- Extended workability of the mixture (approximately 60 minutes at +23°C), ideal for application on large surfaces.
- Rapid drying and hardening.
- Early development of high mechanical strength in flexion and compression, just 4 hours after application.
- Excellent adhesion to traditional cementitious substrates.
- Suitable for both indoor and outdoor applications.
- No shrinkage during curing, preventing the formation of cracks or fissures.

- A smooth finish can be achieved using a slightly damp sponge float, once the product has begun setting and reached the appropriate hardness.

Suitable for leveling and regularizing horizontal and vertical surfaces, indoors and outdoors, with thicknesses from 0 to 10 mm in a single application.

Application scenarios

- Skimming of indoor and outdoor cementitious screeds.
- Leveling of screeds on balconies and terraces to create slopes.
- Regularization of horizontal and vertical concrete surfaces, including tanks and swimming pools.
- Skimming of screeds with underfloor heating systems.
- Leveling and restoration of concrete slabs and walls.
- Skimming of cement-based plasters.
- Skimming of surfaces with residues of old tile adhesives.
- Skimming of surfaces covered with old ceramics, terrazzo tiles, or natural stones.
- Restoration and leveling of steps, pillar edges, balcony fronts, depressions, or localized cavities in flooring.

Characteristics

Appearance	dust
Colour	grey
Mixing ratio	22% (4,4 liters of water per 20 kg bag)
Mixture maturation time	5 minutes
Mixture pH	13
Specific mixing weight	2,10 Kg/dm ³
Mixture duration	50' (1)
Thickness of each coat	0-10 mm
Application	smooth trowel / scrubbing brush / long metal trowel
Application temperature	+5°C ÷ +35°C
Walking on time	3 h (2)
Duration before gluing	12 h (2)

Coverage	1,6 Kg/m ² for 1 mm thickness
Tool cleaning	water (in fresh mix) - Mechanically on hardened product
Packaging	20 kg
Compliance	EN 13813 CT - C30 - F6
Flexural strength	28 days: ≥ 6,0 N/mm ² EN 1348
Resistance to compression	28 days: ≥ 30,0 N/mm ² EN 1348 28 days: ≥ 1,0 N/mm ² EN 1348
Storage stability	12 months (3)
1	at 20°C and 65% R.H.
2	depends on the suitable conditions of the yard: temperature, ventilation, absorption of the subfloor
3	in original sealed containers at temperatures between +10°C and +25°C

Laying conditions

Type of subfloor

Cement tiles, old ceramic floors, marbles, natural stones, smoothed cement.

Subfloor's condition

It is essential to make sure that there is not a rising damp from the substrate. The substrate has to be solid, dry, free of dust, loose parts, rust. Clean the subfloor to be treated by eliminating totally any trace of oil, grease, waxes and paint. Weak subfloors must be treated with PRYMER W (see technical data sheet). Dusty or porous subfloors must be treated with PRYMER W (see technical data sheet) or CHIMIGRIP diluted with 50% of water (see technical data sheet). Not-absorbent surfaces: clean with DILUENTE ACETONE or suitable detergent or dewaxer than apply one coat of CHIMIGRIP (see technical data sheet). Cement subfloors with high residual humidity must be primed with PRYMER SF 1105 or PRYMER PUB 77 (see technical data sheets) than sprinkle Quarz on the surface. Not-absorbent subfloors with high residual humidity must be treated with PRYMER EPOX WETT (see technical data sheet) than sprinkle Quarz on the surface. Anhydrite subfloors must be treated with PRYMER W (see technical data sheet) before the application of RASOCHIM MICRO.

How to use

Pour the required amount of clean water into a container, depending on the intended application, and gradually add the powder while mixing with a low-speed electric mixer equipped with a mixing paddle until a homogeneous, lump-free mixture is obtained. Let the mixture rest for about 5 minutes, then briefly remix for a few seconds before use.

The pot life of the mixture is approximately 60 minutes at +23°C. It is recommended to prepare only the amount of product that can be applied within this timeframe. Apply the product directly to the substrate using a metal trowel, ensuring adequate pressure to promote adhesion.

These information are given from the best of our knowledge and technical experience. They are of general character and not binding in any way our company. Every single case should be put to a practical test by the user who assumes the full responsibility of the final result of his work.

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For applications on large surfaces with high thicknesses, it is recommended to pre-form level strips with Litoplan Smart, to be used as a reference for subsequent leveling using a metal straightedge. To achieve a smooth surface finish, a slightly damp sponge float can be used once the product has begun setting and is sufficiently hardened.

Any corrections or additional skimming can be performed about 3 hours after the initial application.

- Installation of ceramic and natural stone: after approximately 4-6 hours

- Installation of parquet or resilient coverings: after 24 hours

The indicated times may vary depending on ambient temperature and humidity. For parquet installation, ensure that the minimum thickness of RASOCHIM MICRO is at least 3 mm and that the residual moisture content of the substrate is $\leq 2\%$, measured with a carbide hygrometer.

Warnings

- * Apply the product at ambient and substrate temperatures between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$.
- * Do not add lime, cement or any other unauthorized materials to the mix.
- * Do not apply on damp substrates or those subject to capillary rising damp.
- * The pot life of the mixture is approximately 60 minutes at $+23^{\circ}\text{C}$; only prepare the amount of product that can be applied within this time.
- * Strictly follow the specified water/powder ratio. Excess water can increase setting times, cause cracking, detachment, surface dusting and reduced mechanical performance.
- * Avoid application in environments with strong drafts.
- * Do not use the product for applications not explicitly stated in this technical data sheet.

Label elements

For more information about the safe use of the product it is recommended to consult the latest version of the Safety Data Sheet.

Web link

Be sure to have the latest version of this technical data sheet downloadable also from the following link:



http://www.chimiver.com/tds/EN_RASOCHIM_MICRO.pdf