

RASOCHIM PRO

Self-leveling fast-setting cement-based compound for leveling substrates from 0 to 20 mm thick.



Description

Pre-mixed self-leveling cement-based powder compound, formulated with high-performance hydraulic binders, mineral aggregates with controlled granulometry, specific organic additives, and structural synthetic fibers. Once mixed with water, the material develops high fluidity and self-leveling properties, making it suitable for manual or mechanized application using screw plastering pumps, with application thicknesses ranging from 0 to 20 mm.

- Formulated with very low volatile organic compound (VOC) content, compliant with EC1PLUS classification according to EMICODE protocol and A+ class according to French indoor emission regulations.
- High resistance to abrasion wear.
- Accelerated setting and drying times.
- Suitable for screeds with integrated radiant heating systems, without the need for additional plasticizers.
- Can be used both indoors and in covered outdoor areas, provided they are not subject to water stagnation or direct immersion.
- Suitable for leveling surfaces with electric or water-based underfloor heating systems.
- Excellent adhesion to conventional cement-based substrates.
- No shrinkage during curing phase, preventing the formation of cracks or fissures.
- Reinforced with synthetic fibers for greater resistance to thermal stresses typical of radiant floors.

Suitable for leveling and smoothing horizontal surfaces, indoors and outdoors, with thicknesses from 0 to 20 mm in a single application.

Application scenarios:

- Leveling of internal cement screeds
- Leveling of screeds with underfloor heating systems
- Leveling of calcium sulfate-based substrates (anhydrite)
- Leveling of existing ceramic, natural stone, or terrazzo flooring
- Leveling of concrete slabs

Characteristics

Appearance	dust
Colour	grey
Mixing ratio	24% (4,8-5,2 liters of water per 20 kg bag)
Mixture maturation time	3 minutes
Mixture pH	13
Specific mixing weight	2,10 Kg/dm ³
Mixture duration	20' ⁽¹⁾
Thickness of each coat	0-20 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 substrate

Cement screeds, old ceramic floors, marble tiles, natural stones, smoothed concrete.

Substrate compliant with DIN 18365.

Condition of the substrate

Ensure that substrates are dry, solid, free of dust, loose parts, paints, waxes, oils, rust, and gypsum residues.

Dusty or highly porous cementitious substrates must be treated with PRYMER W (see technical data sheet) or CHIMIGRIP diluted 50% with water (see technical data sheet) to fix the dust.

Non-absorbent surfaces: apply CHIMIGRIP (see technical data sheet) after cleaning with ACETONE DILUENT or appropriate detergents or wax removers.

Moist absorbent cementitious substrates must be primed with PRYMER SF 1105 or PRYMER PUB 77 (see technical data sheets) and then sanded with quartz.

Moist non-absorbent substrates must be treated with PRYMER EPOX WETT (see technical data sheet) and then sanded with quartz.

Anhydrite screeds must be primed with PRYMER W (see technical data sheet) before leveling with RASOCHIM PRO.

Expansion joints

It is essential to ensure that perimeter, expansion, contraction, and structural joints are correctly designed and implemented in accordance with relevant technical standards (e.g., UNI 11493-1 and UNI EN 13813). In general, contraction joints should be provided every 50 m² of surface. For floors with underfloor heating systems, this subdivision should be limited to areas of approximately 25-30 m². Even in rooms smaller than 50 m², it is advisable to insert expansion joints at door thresholds to allow proper management of screed movements caused by thermal and hygrometric variations.

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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How to use

Pour the required amount of clean water into a clean container, depending on the type of application, and gradually add the powder product while mixing with a low-speed electric drill fitted with a mixing paddle. Continue mixing until a homogeneous, lump-free mixture is obtained. Let the mixture rest for about 3 minutes, then briefly remix for a few seconds before application. The pot life of the mixture is about 20 minutes at +23°C; it is therefore recommended to prepare only the amount of product that can be applied within this time frame.

Do not exceed the indicated amount of water, as excess water may cause shrinkage during hardening and compromise final mechanical performance.

Do not add water to a mix that has already begun to set. When applying with a screw-type plaster pump equipped with a vertical-axis mixer, use the same water/powder ratio as for manual mixing and ensure perfect homogenization before application. The mixture should be poured directly onto the substrate. Spreading must be done with a smooth steel trowel or rake until the desired thickness is reached.

The product can also be applied with plaster pumps. Installation of coverings (ceramic, parquet, resilient or textile materials) can take place after approximately 12-24 hours, depending on the thickness applied and environmental conditions. For parquet installation, a minimum thickness of at least 3 mm is recommended, and residual moisture must be checked using a carbide hygrometer before bonding.

Warnings

- * Apply the product at ambient and substrate temperatures between +5°C and +35°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 20 minutes at +23°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_PRO.pdf