

RASOCHIM MAXI

Fast drying self-levelling compound for interior works and public floorings for thicknesses from 3 to 50 mm



Description

Premixed self-leveling cementitious compound in powder form, formulated with high-performance hydraulic binders, mineral aggregates with controlled particle size distribution, 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 mechanical application using worm screw plastering pumps, with application thicknesses ranging from 3 to 50 mm.

- Formulated with very low content of volatile organic compounds (VOC), compliant with EC1PLUS classification according to the EMICODE protocol and A+ class under the French indoor emissions regulation.

- High resistance to abrasion wear.
- Accelerated setting and drying times.
- Suitable for screeds with integrated radiant heating systems, without the need for additional fluidizing additives.
- Can be used both indoors and in covered outdoor areas, provided they are not subject to water stagnation or direct immersion.
- Suitable for surface regularization over floor heating systems, both electric and water-based.
- Excellent adhesion to conventional cement-based substrates.
- No shrinkage during the hardening phase, preventing cracks or crazing.
- Reinforced with synthetic fibers for greater resistance to thermal stresses typical of radiant floors.

Product suitable for leveling and regularizing horizontal surfaces, in indoor and outdoor environments, with thicknesses ranging from 3 to 50 mm in a single application.

Application scenarios

- Leveling of indoor cementitious screeds
- Leveling of screeds with underfloor heating systems
- Leveling of substrates based on calcium sulfate (anhydrite)
- Leveling of existing ceramic, natural stone, or terrazzo floors
- Leveling of concrete slabs

Characteristics

Appearance	dust
Colour	grey
Mixing ratio	20% (4 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	40' (1)
Thickness of each coat	3-50 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 - C25 - F6
Flexural strength	28 days: ≥ 6,0 N/mm ² EN 1348
Resistance to compression	28 days: ≥ 25,0 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

Sand floor screeds, cement floor screeds, floor screeds ready to use without used of primer, primered anhydrite floor screeds, ceramic floors, marble, natural stones, wood, clinker and grès.

Substrate in accordance with DIN 18365.

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 30K (see technical data sheet).

Dusty or porous subfloors must be treated with CHIMIGRIP diluted with 50% of water (see technical data sheet).

Cement subfloors with high residual humidity must be primed with 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.

Expansion joints

It is essential to ensure that perimeter, expansion, contraction, and structural joints are correctly designed and executed in compliance with the relevant technical standards (e.g., UNI 11493-1 and UNI EN 13813). As a general rule, contraction joints should be placed every 50 m². For floors with underfloor heating systems, this division should be limited to surfaces of about 25-30 m². Even in rooms smaller than 50 m², it is advisable to insert expansion joints at door thresholds to properly manage screed movement caused by thermo-hygrometric variations.

How to use

Pour the required amount of water into a clean container, depending on the type of application, and gradually add the

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powder product, mixing with a low-speed electric drill equipped with a mixing paddle. Continue mixing until a smooth, 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 40 minutes at +23°C; it is therefore recommended to prepare only the amount of product that can be applied within this time.

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

Do not add water to a mixture that has already begun to set. When applying with a plastering pump equipped with a vertical shaft mixer, use the same water/powder ratio as for manual mixing and ensure perfect homogenization of the mixture before application. The mixture should be spread directly onto the substrate. Application must be performed using a steel smoothing trowel or rake, until the desired thickness is reached.

The product can also be applied using plastering pumps. The installation of floor coverings (ceramic, parquet, resilient and textile materials) can take place after approximately 12-24 hours, depending on the applied thickness and environmental conditions. For parquet installation, a minimum thickness of at least 3 mm is recommended and residual moisture of the substrate must be checked with a carbide hygrometer before gluing. Use 100 grit sandpaper to limit abrasion of the premixed product.

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 40 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_MAXI.pdf