Massetto Premix

Ready-to-use, eco-friendly, normal-setting and rapid-drying mineral screed with damp earth consistency to lay with adhesives.

Massetto Premix develops an excellent workability whether mixed with a standard concrete mixer or a pressure mixer with pneumatic transportation. The surface closure obtained with Massetto Premix, is optimal for bonding floors.



- 2. Ready-to-use, ensures constant levels of performance
- 3. Ideal in renovation work
- 4. Quick surface closure, optimal for bonding floors
- 5. Suitable for laying ceramic tiles, porcelain tiles, natural stone, and hardwood floors using adhesives



Rating 5



- √ Regional Mineral ≥ 60%
- √ Recycled Regional Mineral ≥ 30%
- y CO₂ Emission ≤ 250 g/kg
- **VOC Low Emission**
- Recyclable

kerakoll

Kerakoll Code: F1092 2023/02 EN

Areas of application

→ Intended use:

Normal-setting, rapid-drying interior and exterior screeds adhering to the substrate (thickness ≥ 20 mm) and floating screeds (thickness ≥ 50 mm); underfloor heating systems (thickness above the pipe ≥ 30 mm). Maximum thickness 80 mm.

Compatible adhesives:

- gel adhesives, mineral adhesives, single and two-component organic adhesives
- reactive-epoxy and polyurethane, single and two-component cement-based adhesives, dispersed in water or solvent solutions

Covering materials:

 homogeneous tiles, ceramic, porcelain tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats

- natural stone, recomposed materials and marble including those subject to high deformation or rapid staining due to water absorption
- Hardwood floors

Substrates:

 insulation castings and flooring in prefabricated concrete or fresh concrete castings, cement-based screeds, lightened concrete, panels for sound-proofing and thermal isolation

Do not use

On deformable surfaces, without having previously calculated their degree of flexure and having provided for the necessary fractionizing joints in the screed:

 in adherence on concrete castings which have not yet fully cured

Instructions for use

→ Preparation of substrates

Substrates must be dimensionally stable, dry, free from any rising damp, without cracks, free from dust and loose, crumbling parts and must present a degree of stability suitable for its use. The screed to be covered must be separated from all vertical elements by means of a band of flexible material with a thickness of $\approx 8-10$ mm, along the entire height of the screed. The structural joints present in the substrate must be created accordingly also in the thickness of the screed.

- Anchored screeds: in the case of irregular substrates with screed thicknesses which are variable or in any case less than 40 mm, it is advisable to prepare the substrate positioning, between the midpoint and lower third of the total thickness of the screed, an electro-welded 50x50-mm mesh of Ø 2 mm, to be anchored to the substrate. To improve adhesion to the substrate, apply a slurry key prepared with 2.5 parts 32.5/42.5 cement, 1 part Keraplast Eco P6 eco-friendly water-based latex and 1 part water, wet-on-wet.
- Floating screeds: when laying water-sensitive flooring or in the case of substrates with a risk of moisture rising or which are not perfectly cured, it is indispensable to create a vapour barrier over the substrate (which should be smooth and free from rough parts) using sheets of polyethylene or PVC. The sheets should be laid overlapping one another by at least 20 cm, sealed with adhesive tape and turned up on the walls and vertical elements such as pillars to a

- height corresponding with the entire thickness of the screed.
- Screeds on compressible substrates: in the case of lightened, low-density substrates or in the presence of even thin layers of heat and sound-insulating materials, the thickness of the screed and any reinforcements must be calculated according to the deformability class of said materials.

→ Preparation

Massetto Premix is mixed with clean water using the most common site equipment such as standard concrete mixer, cement mixer trucks, pressure mixers, continuous screw mixers and using the mixing ratio of mixing water indicated until a semi-dry, compact consistency without any appearance of surface water is obtained. When working at temperatures close to 0 °C it is advisable to protect the bags of Massetto Premix from night-time frost and to use hot water to improve mixing, transportation, pumping and workability of the mixture. On the contrary, in the case of high temperatures it is essential that the bags of Massetto Premix be stored in the shade and that cold water be used.

→ Application

Massetto Premix is applied in a safe, practical way using the traditional methods for cement-based screed: preparation of levelling layers, casting and compacting of the mix and flattening; it is highly recommended to apply the final smoothing with mechanical means

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Instructions for use

equipped with a steel disk, taking care not to excessively insist so as to avoid the creation of a low-absorption surface crust that tends to lengthen the screed drying time and worsen the performance of the adhesive.

The compacting phase is of particular importance in order to achieve the highest mechanical performance; it must be carried out immediately after the screed is laid on the substrate, and before the surface is smoothed with a metal flattener. In the case of high thicknesses, compacting must be carried out in successive layers until the required thickness is obtained. In points where tubing is installed, where the screed might be less thick (minimum 3 cm), insert a galvanized metal mesh with

2-3 cm mesh size. At points in which new layers are to be started following interruptions in work, a connection must be made between the two casting layers by inserting Ø 5 iron rods of length ≈ 50 cm at a distance of $\approx 20-30$ cm from each other, or using a section of electrowelded mesh (Ø 5 mm, 20x20 cm) and applying a slurry key prepared with 2.5 parts 32.5/42.5 cement, 1 part Keraplast Eco P6 eco-friendly water-based latex and 1 part water on the wall of the casting before continuing work.

→ Cleaning

Residual traces of Massetto Premix can be removed from tools and machinery using water before the product hardens.

Special notes

- → Joints: screed must be desolidarised around the perimeter, laying the Tapetex compressible tape along the whole perimeter of the room, on the walls and on any other vertical elements protruding from the supporting layer. Creating fractionizing surface joints, cutting the screed while still wet up to a depth that is about 1/3 of the thickness and paying attention not to damage the reinforcement grid, if present. Their location and space distance must be determined at the design stage. They are typically carried out:
 - in the case of sudden change in the size of flooring,
 - near doors,
 - in the presence of elements with loss of continuity,
 - for the fractionizing of large continuous surfaces:
 - 25 m^2 with 6 m maximum individual size, in case of external screeds
 - 50 m² with 8 m maximum individual size, in case of internal screeds (40 m² in case of underfloor heating systems).

 Structural joints located in the substrate must
 - Structural joints located in the substrate must be respected.

- → Measurement of humidity: residual humidity can be measured correctly only with a calcium carbide hygrometer. Normal electrical hygrometers are not recommended, as they provide inconsistent and incorrect values due to the special binders used.
- → Hardwood floors laying: check on-site the suitability of the cured screed according to local existing provisions; if necessary, consolidate with EP21. In the case of large format and/or unstable hardwood floors, contact the Kerakoll Worldwide Global Service.
- → Underfloor heating systems: initial start-up at least 5 days after laying the screed at a supply temperature of between +20 °C and +25 °C, maintain this for at least 3 days then set the maximum project temperature and maintain it for at least another 4 days. Bring the screed back to room temperature and lay (EN 1264-4 point 4.4).

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Certificates and marks











SANS L'AR INTÉRIUR*

• Émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

Abstract

The high-performance screed or heat-radiant slab will be made of ready-to-use, eco-friendly, normal-setting and rapiddrying mineral screed, complying with standard EN 13813 class CT-C16-F4, GreenBuilding Rating 5, such as Massetto Premix by Kerakoll Spa, with an average thickness of ____ cm, suitable for adhesive laying of tiles after 24 hrs and of hardwood floors 5 days after application. Including supply and installation of deformable expanded polyethylene bands for desolidarisation joints.

Technical Data compliant with Kerako	ll Quality Standard	
Appearance	Mixture of binders and aggregates	
Apparent volumetric mass	$\approx 1.56 \text{ kg/dm}^3$	UEAtc/CSTB 2435
Mineralogical nature of inert material	silicate - crystalline carbonate	
Grading	≈ 0 – 3 mm	UNI 10111
Shelf life	\approx 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	≈ 1.75 l / 1 bag 25 kg	
Specific weight of the mixture	$\approx 1.96 \text{ kg/dm}^3$	UNI 7121
Pot life	≥ 3 hrs	
Temperature range for application	from +5 °C to +35 °C	
Floating screed thicknesses	from 50 mm to 80 mm	
Thicknesses of the bonded screed	from 20 mm to 80 mm	
Foot traffic	≈ 8 hrs	
Waiting time before laying (thickness 5 cm):		
- ceramic tiles	≈ 24 hrs	
- hardwood floors	≈ 7 days	
Coverage	≈ 18 kg/m² per cm of thickness	

Performance VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions			
HIGH-TECH			
Resistance to:			
compressive after 7 days	≥ 14.5 N/mm ²	EN 13892-2	
compressive strength after 28 days	≥ 16 N/mm ²	EN 13892-2	
flexural after 28 days	≥ 4 N/mm ²	EN 13892-2	
Residual moisture (thickness 5 cm):			
after 24 hrs	≤ 3%		
- after 7 days	≤ 2%		
Conformity	CT - C16 - F4	EN 13813	

Values taken at +20 °C, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

- → Product for professional use
- → abide by any standards and national regulations
- → check the product suitability for the expected loads
- → do not add other binders, inert materials, pigments or additives to the mixture
- \rightarrow low temperatures and high relative humidity lengthen the drying time of the screed
- → an excessive quantity of water reduces mechanical resistance and the rapidity of drying
 - before laying hardwood floors and resilient materials, check residual moisture with a calcium carbide hygrometer
- \rightarrow do not add water to Massetto Premix during the setting phase
- → do not moisten the screed and protect it from direct sunlight and currents of air for the first 24 hrs
- → if necessary, ask for the safety data sheet
- → for particular substrates and other conditions, please consult the Kerakoll Worldwide Global Service +39 0536.811.516



Kerakoll Quality System ISO 14001 CERTIFIED 18586-E Kerakoll Quality System ISO 45001 CERTIFIED 18586-1 The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in January 2023 (ref. GBR Data Report – 02.23); please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.