Quartzo

Eco-friendly crushed sand extracted from hard natural rock, free from impurities such as silts, salts and sulphates. Suitable for creating high performance screeds for all types of tiles and natural stones, ideal for use in Greenbuilding.

Kerakoll® Quartzo is used with Keracem® Eco, mineral binder to create normal setting, fast drying screeds of high dimensional stability with consistent mechanical properties and high durability.

PRODUCT STRENGTHS

- A perfect gradation from 0 to 6 mm ensures fewer voids and increased compressive strength
- Well balanced physical and chemical properties
- High dimensional stability and long lasting performance
- Eco friendly
- Confirms to EN 13892-2 and IS 383

AREAS OF USE

Use
Crushed sand used with the mineral hydraulic binder Keracem Eco to create screeds ≥ 20 mm thick that adhere to the substrate and floating screeds ≥ 40 mm thick, in domestic, commercial and industrial applications, also in areas subjected to thermal shock and freezing. Compatible with all cement-based, reactive-epoxy and polyurethane two-component adhesives, dispersed in water and in solvent solutions.

For laying:
- fully vitirifed tiles, ceramic tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats
- natural stones
- recomposed materials
- hardwood floors

Do not use
On deformable substrates, without having previously carried out the necessary checks tensile stress, compression movement and having provided for the necessary fractionizing joints; in adherence on concrete castings which have not yet been fully cured.

INSTRUCTIONS FOR USE

Preparation of substrates
Substrates must be dimensionally stable in accordance with IS 1443-1972, clean, dry, free from any rising damp, without cracks, free from dust and loose, crumbling parts. It must present a degree of stability suitable for its use. The structural joints present in the substrate must be created accordingly also in the thickness of the screed.
Bonded screeds: to improve adhesion to the substrate apply a slurry bond coat, prepared with 3 parts of Keracem Eco, 1 part of eco-friendly, water-based latex P5 Eco and 1 part of water by weight.
Floating screeds: when laying water-sensitive flooring, in case of substrates in which there is a risk of rising damp and substrates that have not been cured completely it is essential that a damp protection barrier should be provided. On light, low-density substrates or in the presence of layers of thermal/acoustic insulating materials, the screed thickness will depend on the deformability class and load-bearing capacity of the materials mentioned.

Instruction for use
Kerakoll® Quartzo and Keracem® Eco can be applied in a practical manner, following the traditional phases required to produce cement-based screeds: preparation of level belts, casting and compacting the mixture, leveling and final smoothening with a spreader of mechanical means. The compacting phase is particularly important to ensure the highest levels of mechanical performance.
The screed can be machine or hand-finished while still fresh. Adjust the dosage according to the final finish required. If too much water is used this may result in shrinkage and cracking and a longer drying time. Areas that have been started must be finished without any suspension in casting operations during the work itself.

Tools
Pressure mixers for screeds, concrete mixer, trowel, spade and aluminium frames.

Cleaning
Wash machines with water before the product hardens.

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SPECIAL NOTES

Elastic joints: expansion joints must be provided for, as in the case of traditional cement-based screeds, at thresholds, niches, corners, edges, wall openings and fractionizing joints in the case of large continuous surfaces.
Measurement of humidity: residual humidity can be measured correctly only with a calcium carbide hygrometer. Normal electric hygrometers are not allowed as they will provide unstable and incorrect values owing to the special hydraulic binders used.

PERFORMANCE

HIGH-TECH

Mix by weight Keracem® Eco/Quartzo	Mix by volume Keracem® Eco/Quartzo	Water Ratio (%)	Compressive strength after 28 days	Recommendations
			As per EN 13892-2	
1:6	1:4	9%	≥ 30MPa	Bare screed, for heavy duty area before laying of vitrified tiles and natural stones
1:10	1:6	9%	≥ 23MPa	For laying all type of vitrified tiles and natural stones on dry screed
1:13	1:8	10%	≥ 16 MPa	For laying all type of vitrified tiles and natural stones through slurry technique on wet screed

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- use the recommended dosages
- do not add other binders, additives or water to the mixture during the setting phase
- low temperatures and high relative humidity lengthen the drying time of the screed
- do not cure the screed
- before laying covering materials, check residual humidity with a calcium carbide hygrometer
- for any other issues, contact the Kerakoll India Global Service +91 93 2404 5205 - info@kerakollindia.com

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