

Superflex

Elastic polyurethane organic adhesive for high performance fixing with no vertical slip on deformable surfaces. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

Superflex develops high elasticity and non-sag effect, making it safe to lay water-sensitive ceramics, porcelain tiles and natural stones even diagonally or from top to bottom on highly deformable and expandable, absorbent and non-absorbent substrates.



1. High adhesion and deformability
2. Excellent workability
3. Ideal for natural and engineered stones
4. Floors and walls, for internal and external use
5. Open and adjustability time ≥ 60 min.
6. Suitable for porcelain tiles, ceramics, large formats, low thickness slabs and natural stones
7. Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity
8. Ideal for resin-based engineered stones
9. Easy and light to spread thanks to the Light Work technology

kerakoll

Areas of application

→ Use

High-elasticity laying of ceramic tiles, porcelain tiles, marble and natural stone, on floors and walls, on absorbent and non-absorbent, deformable substrates.

Materials:

- porcelain tiles, low thickness slabs, ceramic tiles, klinker, cotto, glass and ceramic mosaic, natural stone, marble, granite and recomposed materials also subjected to staining or deformation due to water absorption and thermal expansion

Substrates:

- mineral screeds
- mineral screeds made with Biocem mineral binder
- cement-based screeds
- prefabricated concrete or fresh concrete castings
- cement plasters and cement-lime mortar
- floors and walls in polyurethane resin, glazed tiles, cement-based and resin floor tiles, porcelain tiles
- wood, metals, rubber, linoleum, glass surfaces

Internal and external flooring and walls, in domestic, commercial and industrial applications, for street furniture, underfloor heating systems, work surfaces in industrial settings or in laboratories, also in areas subject to freezing. Fixing to sheet metal used for prefabricated bathrooms, on worktops and kitchens, balconies, terraces, flat roofs and domes.

Do not use in contact with polystyrene or on substrates which are not fully cured and subjected to moisture rising.

Instructions for use

→ Preparation of substrates

Substrates must be compact and consistent, free from dust, oil and grease, free from any rising damp, with no loose, flaky, or imperfectly anchored parts. The substrate must be stable, without cracks and have already completed the curing period of hygrometric shrinkage. Uneven areas must be corrected with suitable smoothing and finishing products.

→ Preparation

Superflex is prepared by mixing together parts A and B from the bottom upwards, using a low-rev ($\approx 400/\text{min.}$) helicoidal agitator, respecting the preset ratio of 3.2 : 0.8 of the packs. Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained. The user must mix a quantity of adhesive which can be consumed within 1 hour at $+23\text{ }^{\circ}\text{C}$ / 50% R.H. Packs of Superflex must be stored at a temperature of $\approx +20\text{ }^{\circ}\text{C}$ for at least 2/3 days prior to use.

→ Application

Superflex must be applied with a suitable, toothed spreader of the type and dimensions most appropriate for the format and type of tiles used. Using the smooth part of the trowel, apply a fine layer of product, pressing down onto the substrate in order to ensure maximum adhesion. Press down each tile into the ribbed adhesive to allow for maximum coverage of the surface. In environments subjected to heavy traffic, in external applications and wherever high-elasticity laying system is required, use the double-spread technique to ensure 100% application of the product to the rear of the tiles.

→ Cleaning

Residues of Superflex can be cleaned from tools and covered surfaces with water and alcohol while the adhesive is still fresh. Once cured, the adhesive can only be removed by mechanical means.

Certificates and marks



* 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

High-performance fixing of porcelain tiles, marble, granite and ceramic tiles on deformable substrates must be carried out using two-component elastic organic mineral adhesive with no vertical slip, compliant with EN 12004 – class R2 T, such as Superflex manufactured by Kerakoll. The surface must be clean, free from any loose, flaky parts and adequately matured. A ____ mm toothed trowel must be used for an average coverage of ≈ ____ kg/m². Create elastic fractionizing joints every ____ m². Tiles must be laid with joints of ____ mm width.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	Part A white paste / Part B white paste	
Specific weight	Part A ≈ 1.46 kg/dm³ / Part B ≈ 1.78 kg/dm³	
Adhesive thickness	from 2 to 10 mm	
Mineralogical nature of inert material	crystalline carbonate	
Grading	≈ 0 – 100 µm	
Shelf life	≈ 24 months from production in the original sealed packaging	
Warning	Protect from frost. Avoid direct exposure to sunlight and sources of heat.	
Pack	monopack 4 kg (3.2+0.8 kg)	
Mixing ratio	Part A : Part B = 3,2 : 0,8	
Viscosity of the mixture	≈ 750000 mPa · s, rotor 7 RPM 5	Brookfield method
Specific weight of the mixture	≈ 1.5 kg/dm³	
Temperature range for application	from +10 °C to +35 °C	
Pot life at +25 °C	≥ 60 min.	
Open time	≥ 60 min.	EN 12004-2
Adjustability	≥ 60 min.	
Vertical slip	≤ 0,5 mm	EN 12004-2
Foot traffic	≈ 24 hrs	
Grouting	≈ 12 hrs on walls / ≈ 24 hrs on floors	
Interval before normal use	≈ 3 days	
Consumption per mm of thickness*	≈ 1.5 kg/m²	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e.temperature, ventilation and absorbcency level of the substrate and of the materials laid.
(*) Can vary depending on the irregularity of the substrate and the format of the tile.

Performance		
HIGH-TECH		
Durability test:		
- shear adhesion after water immersion	≥ 3.5 N/mm ²	EN 12004-2
- shear adhesion after thermal shock	≥ 3.5 N/mm ²	EN 12004-2
Adhesion to concrete after 7 days	≥ 2.5 N/mm ² (concrete breakage)	EN 12004-2
Vertical slip	≤ 0.5 mm	EN 12004-2
Elongation at break after 7 days	≈ 30%	
Service temperature of the cured product	from -40 °C to +70 °C	
Tensile adhesion strength:		
- dry condition	3.43 N/mm ²	IS 15477: 2019
Shear adhesion strength:		
- dry condition	6.2 N/mm ²	IS 15477: 2019
- heat ageing condition	5.09 N/mm ²	IS 15477: 2019
Deformability	≥ 10 mm	IS 15477: 2019
Slip resistance	0.4 mm	IS 15477: 2019
Initial shear adhesion strength	2.3 N/mm ²	EN 12004-2
Open time tensile adhesion strength	3.00 N/mm ²	EN 1346

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

- Abide by any standards and national regulations
- use at temperatures between +10 °C and +30 °C
- use packs which have been stored for 2/3 days before use at +25 °C
- strictly keep to the mixing ratio of 3.2 : 0.8. For partial mixing, weigh the two parts precisely
- workability times may vary considerably, depending on environmental conditions and the temperature of the tiles
- protect against direct rain for at least 12 hrs
- do not lay on substrates subject to moisture rising or which are not completely dry
- if necessary, ask for the safety data sheet
- for any other issues, contact Kerakoll Customer Care +91-22-2839 5593 / 1800 102 4957 - info@kerakollindia.com

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