Superflex

Eco-friendly, elastic organic mineral adhesive for high-performance and high-adhesion fixing with no vertical slip on deformable surfaces.

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

1. **Floors and walls, for internal and external use**
2. **Open and adjustability time ≥ 30 min.**
3. **Suitable for vitrified tiles, ceramics, large formats, low thickness slabs and natural stone**
4. **Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity**
5. **Ideal for resin-based engineered stones**
6. **Easy and light to spread thanks to the Light Work technology**

GREENBUILDING RATING
REF. GBR DATA REPORT 05.23
APPROVED

Rating 2

- ✓ Regional Mineral ≥ 30%
- × VOC Very Low Emission
- × Solvent ≤ 5 g/kg
- × Low Ecological Impact
- ✓ Health Care

kerakoll

Areas of application

→ Use
High-elasticity adhesive for fixing of ceramic tiles, vitrified tiles, marble and natural stone, on floors and walls, on absorbent and non-absorbent, deformable surfaces.

Materials:
- vitrified 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

Surfaces:
- 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, PVC, 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, swimming pools, Turkish baths, thermal water baths and fountains, 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 surfaces 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 surface 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 (≈ 400/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 °C / 50% R.H. Packs of Superflex must be stored at a temperature of ≈ +20 °C for at least 2/3 days prior to use.

→ Application
Superflex must be applied with a suitable, toothed trowel 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 surface 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 fixing 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

CE EN 12004 | R2 T EN 12004 | Type 5 TS2 IS 15477:2019 | LIGHT WORK TECHNOLOGY | ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ (A+ A B C)

* 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 vitrified tiles, marble, granite and ceramic tiles on deformable substrates must be carried out using two-component elastic, eco-friendly organic mineral adhesive with no vertical slip, compliant with EN 12004 – class R2 T, GreenBuilding Rating 2, 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 fixed 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 +30 °C	
Pot life	≥ 30 min.	
Open time	≥ 30 min.	EN 12004-2
Adjustability	≥ 30 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	
Coverage *	≈ 1.5 kg/m² per mm of thickness	

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

Performance		
HIGH-TECH		
Shear adhesion after 28 days	≥ 6 N/mm²	IS 15477: 2019
Durability test:		
- shear adhesion after water immersion	≥ 3.5 N/mm²	EN 12004-2
- shear adhesion after thermal shock	≥ 3.5 N/mm²	EN 12004-2
Adhesion to concrete after 7 days	≥ 2.5 N/mm² (concrete yield)	EN 12004-2
Vertical slip	≤ 0.5 mm	EN 12004-2
Elongation at break after 7 days	≈ 30%	
Working temperature	from -40 °C to +70 °C	
Deformability	≥ 20 mm	IS 15477: 2019

Values taken at +23 °C, 50% 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
→ use at temperatures between +10 °C and +30 °C
→ use packs which have been stored for 2/3 days before use at +20 °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 fix on surfaces 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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