

Superflex

Elastic organic adhesive for high-performance and high-adhesion laying with no vertical slip on deformable substrates of porcelain tiles, ceramic tiles and natural stones.

Superflex develops high elasticity and thixotropy, 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. Floors and walls, for internal and external use
2. Open and adjustability time ≥ 1 hr
3. Suitable for porcelain tiles, ceramics, large formats, low thickness slabs and natural stones
4. Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity



Rating 2

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

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.

Substrates:

- mineral or cement-based screeds
- underfloor heating systems
- 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 ⁽¹⁾

(1) After cleaning with Keragrip Eco Pulep

Materials:

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

Uses:

- floors and walls
- for internal and external use
- overlaying
- domestic
- commercial
- industrial
- street furniture
- swimming pools and fountains
- saunas and spa
- terraces and balconies

Do not use:

- in direct contact with polystyrene (Styrofoam, EPS, XPS, etc...)
- on Aquastop Nanoflex
- on cement-polymer waterproofing sheathings, check the suitability on the producer's technical data sheets
- on substrates that are not fully dry and subject 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 6.4 : 1.6 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. It is necessary to mix enough adhesive to be used within 1 hour at +23 °C 50% R.H.

Packs of Superflex must be stored at a temperature of $\approx +20$ °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 laying 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, GreenBuilding Rating 2, such as Superflex manufactured by Kerakoll. The substrate must be clean, free from any loose, flaky parts and adequately matured. A ___ mm toothed spreader must be used for an average coverage of \approx ___ 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	
Pack	monopack 8 kg (6.4+1.6 kg)	
Shelf life	\approx 24 months from production in the original sealed packaging	
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat	
Thickness	\leq 10 mm	
Mixing ratio	Part A : Part B = 6.4 : 1.6	
Temperature range for application	from +10 °C to +30 °C	
Pot life	\geq 1 hr	
Open time	\geq 1 hr	EN 12004-2
Adjustability	\geq 1 hr	
Foot traffic	\approx 24 hrs	
Grouting	\approx 12 hrs on walls / \approx 24 hrs on floors	
Interval before normal use	\approx 3 days	
Coverage per mm of thickness	\approx 1.5 kg/m ²	

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.

Performance**HIGH-TECH**

Shear adhesion after 7 days	$\geq 4 \text{ N/mm}^2$	
Shear adhesion after water immersion	$\geq 3.5 \text{ N/mm}^2$	EN 12004-2
Shear adhesion after thermal shock	$\geq 3.5 \text{ N/mm}^2$	EN 12004-2
Adhesion to concrete after 7 days	$\geq 2.5 \text{ N/mm}^2$ (concrete breakage)	EN 12004-2
Vertical slip	$\leq 0.5 \text{ mm}$	EN 12004-2
Elongation at break after 7 days	$\approx 30\%$	
Working temperature	from $-40 \text{ }^\circ\text{C}$ to $+70 \text{ }^\circ\text{C}$	
Conformity	R2 T	EN 12004

Values taken at $+23 \text{ }^\circ\text{C}$, 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 $+10 \text{ }^\circ\text{C}$ and $+30 \text{ }^\circ\text{C}$
- use packs which have been stored for 2 – 3 days before use at $+20 \text{ }^\circ\text{C}$
- strictly keep to the mixing ratio of 6.4 : 1.6. 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
- for laying on cement-polymer waterproofing coverings, check the suitability on the producer's technical data sheet
- do not use in direct contact with polystyrene (Styrofoam, EPS, XPS, etc.), always carry out a cement finishing of not less than 10 mm beforehand
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service - info@kerakoll.ae

The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in December 2022 (ref. GBR Data Report - 01.23); please note that additions and/or amendments to this information 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 site 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.