Pragma Flex

High performance mineral adhesive with no vertical slip and extended open time. For porcelain tiles, ceramic tiles and natural stone.



1. Suitable for porcelain tiles, mosaic and natural stone
2. High performance
3. With low VOC emissions
4. Thicknesses up to 15 mm
5. Open Time > 30 min.
6. With no vertical slip

kerakoll

Areas of application

→ Intended use:
Substrates:
- cement-based screeds and mortars
- anhydrite screeds (1)
- cement-based plasters/renders
- gypsum-base plasters and gypsum boards (1)
- cellular concrete, for internal use
- plasterboard and cement boards (1)
- fibro-cement slabs
- heated floors

(1) After application of Active Prime Fix or Active Prime Grip

Materials:
- ceramic tiles
- porcelain tiles
- terracotta
- klinker
- marble and natural stone
- various mosaics

Uses:
- floors and walls
- for internal use - external
- swimming pools
- domestic
- commercial
- street furniture

Do not use:
- on existing ceramic floors, marble tiles or natural stone
- on timber, metal, plastic or resilient materials, deformable substrates or subject to vibrations
- on screeds, plasters/renders, concrete not yet cured and affected by important drying shrinkage
- on smooth prefabricated concrete
- on moistened substrates or substrates subject to moisture rising
- on organic-based, reactive waterproofing products (such as RM according to EN 1489).

Instructions for use

→ Preparation of substrates
All substrates must be free from dust, oil and grease, dry and free from any rising damp, with no loose, flaky or imperfectly anchored parts such as residual traces of cement, lime and paint, which must be totally removed. The substrate must be stable and without cracks, must have already completed the hygrometric shrinkage curing period and must present suitable mechanical resistance levels. Uneven areas must be corrected in advance with suitable finishing products.
Substrates with weak surface consistency: screeds and plasters which present a weak crystalline structure in the initial mm of thickness and which can be easily abraded must be consolidated by means of Keradur, the water-based depth consolidant, to be applied with one or more coatings and according to the instructions, until a surface has been obtained which is still absorbent but compact.
Highly absorbent substrates: when laying on screeds and plasters which are compact but highly absorbent, in warm climates and with direct ventilation, it is advisable to apply in advance one or more coatings of Active Prime Fix or Active Prime Grip primers according to the instructions.

→ Preparation
Mixing water
- Grey: 6.75 to 7.75
- White: 6.75 to 7.5

The amount of water indicated is approximate. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

→ Application
Pragma Flex should be applied with a suitable toothed spreader, to be chosen according to the size and characteristics of the rear surface of the tiles. It is best to use the smooth part of the trowel to spread a fine initial layer, pressing down hard so as to obtain maximum adhesion to the substrate and to regulate water absorption, after which the thickness can be adjusted as required by tilting the spreader at an angle. Spread the adhesive over a surface area which will allow for the laying of the surface materials within the indicated open time, and check for suitability at regular intervals. The open time may vary considerably even during the application, depending on various factors such as exposure to sunlight, air currents, absorbency level of the substrate, temperature and relative air humidity. Press any tile sufficiently to ensure complete and even contact with the adhesive itself. In environments subject to heavy traffic and in external locations,use the double-spread technique to ensure 100% application of the product to the rear of the tiles. Respect structural, fractionizing, and perimeter joints present in the substrates. Abide by local existing provisions when creating elastic expansion joints.

→ Cleaning
Clean the tools and any residues of the product from the surfaces using water while the adhesive is still fresh. Once hardened, the adhesive can only be removed by mechanical means.

Special notes

→ Materials and special substrates
- Marble–natural stones and Recomposed materials: materials that are subject to deformation or staining due to water absorption require a quick-setting or reactive adhesive. Marble and natural stone in general may have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential you consult Kerakoll Gulf Technical Team to request specific indications or to carry out a test on a sample of the material. In the absence of specific indications from the manufacturer, natural stone slabs with reinforcement layers, in the form of resin coating, polymer mesh, matting, etc. or treatments (for example damp courses, etc.) applied on the laying surface must be tested in advance to ensure they are compatible with the adhesive. Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.
- Waterproofing products: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.

→ Special applications
- Insulating and soundproofing panels for interior use applied as recommended by the manufacturers.
- Plasterboard and fibro-cement slabs must be firmly anchored to specific metal frames

Certificates and marks

C2 TE
EN 12004

GEV-EMICODE EC 1 PLUS very low emission

Abstract

High-performance laying of ceramic and porcelain tiles, mosaic, marble and natural stone with high performance mineral adhesive with no vertical slip and long open time, compliant with standard EN 12004 – class C2 TE, such as Pragma Flex by Kerakoll Spa. Substrates must be compact, with no loose, flaky material, clean and fully cured, having already completed the curing period for hygrometric shrinkage. For laying, a ____ mm toothed spreader must be used for an average coverage of ≈ ___ kg/m². Existing joints must be respected, create elastic fractionizing joints every ___ m² of continuous surface. Ceramic tiles must be laid with joint-gap spacers with a width of ____ mm.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	white or grey pre-mixed powder	
Pack	25 kg bags	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Maximum thickness obtainable	≤ 15 mm	
Temperature range for application	from +5 °C to +40 °C	
Pot life at +23 °C	≈ 4 h	
Open time	≥ 30 min.	EN 12004-2
Correction time	≥ 15 min.	
Foot traffic	≈ 24 h	
Grouting in wall and floor	≈ 20 h	
Interval before normal use	≈ 7 days	
Coverage per mm thickness	≈ 1.25 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 absorbency level of the substrate and of the materials laid.

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 plus GEV-Emicode	GEV certified 4618/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 1 N/mm²	ANSI A-118.4
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 1 N/mm²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm²	EN 12004-2
- adhesion after water immersion	≥ 1 N/mm²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 1 N/mm²	EN 12004-2
Vertical slip	≤ 0.5 mm	EN 12004-2
Working temperature	from -30 °C to +80 °C	
Conformity	C2 TE	EN 12004

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
→ do not use the adhesive to correct substrate irregularities greater than 15 mm
→ protect from direct rainfall for at least 24 hrs
→ the temperature, ventilation and absorption of the substrate and covering materials, may vary the adhesive workability and setting times
→ use the right size of notched trowel for the format of the tile or slab
→ guarantee a full-bed in all external laying operations
→ if necessary, ask for the safety data sheet
→ for any other issues, contact the Kerakoll Worldwide Global Service - info@kerakoll.ae

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