

Kwik Flex Grey Adhesive

MIX WITH WATER BUILT IN FLEXI-ADMIX

Description

KWIK-FLEX is a cement-based, highly polymer modified, thin-bed ceramic wall & floor tile adhesive, which conforms to BS 5980 Type 1 Class AA (BS EN 12004 Type C, Class 2FT). Available in GREY or WHITE for fixing ceramic and porcelain FLOOR and WALL tiles, including mosaics, porcelain and vitrified tiles. KWIK-FLEX can be used for fixing tiles onto timber panels; WPB plywood; waterproof composite boards and impermeable surfaces, such as existing tiles and powerfloated concrete, all without the need to include a flexi-additive in the mix. KWIK-FLEX gives improved flexural strength, water-resistance and is recommended for applications over sub-floor heating.

Surface Preparation

The substrate must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. It must also be structurally sound and strong enough to support the expected traffic loading. KWIK-FLEX can be applied to dry or damp surfaces however moisture sensitive materials must be dry and remain dry after fixing. Worn or porous surfaces should be sealed with TILERS PRIMER [SBR] diluted as 1 to 3 with water. KWIK-FLEX can be applied to waterproof ply-board which should be dry, sealed on all exposed faces and edges and primed using TILERS PRIMER [SBR]. Plywood and composite boards must always be waterproof rated; at least 15mm thick; screw-fixed at 300mm centres and rigidly braced to provide a dimensionally stable background as described in BS 5385. Applications over sub-floor heating should allow 28 days before switching the heat on. KWIK-FLEX is not recommended for application directly onto tongue and groove timber floorboards or floating floors. Do not apply onto bare, un-sealed gypsum plaster or anhydrite floor screed before sealing this surface with two coats of neat TILERS PRIMER.

Mix Preparation

KWIK-FLEX should be added to water in a clean container whilst mechanically stirring and mixed thoroughly to give a soft, slump-free, easily worked mortar. The recommended mixing proportions by volume are 1 part water to 3 parts powder (Approx 5 litres per 20kg sack). The consistency of the paste can be adjusted with slight additions of water or powder at the initial mixing stage, however part-used adhesive should never be "freshened up" with later water additions, but should always be discarded once it appears to lose its workability. In ideal conditions (20°C room temperature), KWIK-FLEX will remain workable for 30 to 40 minutes and then reach final set after about 3 - 4 hours depending on site temperatures, which if high will result in shorter working time.

Application Method

For fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed on the substrate, into which the tiles are firmly bedded with a twist and slide action to ensure full contact. Use a 3mm x 3mm notch at 6mm centres for mosaics and thin flat backed wall tiling, a 5mm x 5mm notch at 10mm centres for general wall tiling and 10mm x 10mm notch at 16mm centres for floor tiling. The position of the tiles can be adjusted up to 10 minutes after initial fixing. Open time of the exposed mortar bed

Technical Summary

Mix ratio	Pot life	Open time	Final set	Coverage
3 powder to 1 water (vol:vol)	30 – 40 minutes	20 minutes	3 - 4 hours	2.5 – 4.0 kg/sq. metre

SUITABLE FOR HEATED SUB-FLOORS

is approximately 20 minutes, depending on surface porosity and site temperatures. It is recommended that tiles with raised or studded back profiles, (or in situations where dampness is likely after tiling), should be back-buttered to ensure solid bed fixing. Do not trowel out an area of adhesive greater than can be tiled over within a 10 minute period. Surfaces, such as tamp-rutted concrete and masonry block-work, that are rough or uneven may first be levelled with SELF-LEVELLING COMPOUND and when sufficiently firm (24 – 48 hours later), followed by an application of KWIK-FLEX adhesive as a bed of 2 to 3mm thickness. Expansion joints should be planned and installed in large floor areas in accordance with the recommendations of BS 5385. Maximum recommended bed depth is 6mm.

Coverage

When fixing on a level, even floor surface using a 10mm notched trowel, KWIK-FLEX will cover at a rate of about 4kg per sq. mtr for heavy-duty, studded tiles. When applying wall tiles, the product will cover at about 2.5 kg per sq. mtr.

Grouting

Grouting may proceed as soon as the tile bed is sufficiently firm, which for KWIK-FLEX will be after 3 - 4 hours at room temperature. This period however will be extended in cold conditions. For wall joints up to 4mm wide use WHITE WALL TILE GROUT, however on flooring applications, joints of up to 20mm wide can be grouted using WIDE JOINT FLOOR TILE GROUT or where tiles have been fixed on timber surfaces or in locations subject to immersion or persistent wetting, the use of FLEXIFLOOR TILE GROUT is recommended.

Storage & Packaging

KWIK-FLEX is supplied in 20kg multi-ply, moisture resistant paper sacks and has a storage life of not less than 12 months if stored in dry, unopened conditions. Should further technical information be required, contact the Technical helpline on 0151 486 6101.

Performance test data

EN 12004 – C2FT

Improved, fast setting cementitious adhesive with reduced slip

Early Tensile adhesion strength	> 0.5 N/mm ²
Initial Tensile adhesion strength	> 1.0 N/mm ²
Tensile adhesion strength after heat ageing	> 1.0 N/mm ²
Tensile adhesion strength after freeze thaw cycles	> 1.0 N/mm ²
Tensile adhesion strength after water immersion	> 1.0 N/mm ²
Reduced Slip	< 0.5mm
Reaction to Fire	Class F

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