



Issue – MF/0202

**WALK ON 3 HOURS
AFTER FIXING***

**MIX WITH WATER
BUILT IN FLEXI-ADMIX**

**SUITABLE FOR VITRIFIED &
PORCELAIN TILES**

MULTIFLEX is a cement-based, highly polymer modified, thin-bed ceramic tile adhesive, which conforms to BS 5980 Type 1 Class AA (BS EN 12004 Type C, Class 2FT). Available in grey & white for fixing all types of ceramic floor and wall tiles, including mosaics, porcelain and vitrified tiles. MULTIFLEX is ideally suited for application onto timber panels, plywood, waterproof composite boards (exterior grade chipboard) and impermeable surfaces, such as existing tiles and power-floated concrete without the need to include a flexi-additive in the mix. MULTIFLEX gives improved flexural strength, water-resistance and is suitable for applications where under-floor heating is installed.

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. MULTIFLEX 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. MULTIFLEX can be applied to waterproof ply-board however composite panel-boards 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. MULTI-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 first priming this type surface with two coats of neat TILERS PRIMER.

MULTIFLEX 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), MULTIFLEX will remain workable for 30 to 40 minutes and then reach final set after about 2 to 3 hours. The workable open time will be shortened in higher temperatures and mix volumes should be reduced to work in smaller areas per batch.

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 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 tamped concrete and masonry block-work, that are rough or uneven may first be levelled with PALACE SELF-LEVELLING COMPOUND and when sufficiently firm (24 – 48 hours later), followed by an application of MULTIFLEX 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.

When fixing on a level, even floor surface using a 10mm notched trowel, MULTIFLEX 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 3 kg per sq. mtr.

Grouting may proceed as soon as the tile bed is sufficiently firm, which for MULTIFLEX 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 PALACE WHITE WALL TILE GROUT, however on flooring applications, joints of up to 20mm wide can be grouted using PALACE FLOOR TILE GROUT. Where tiles have been fixed on timber surfaces or in locations subject to immersion or persistent wetting, the use of PALACE FLEXI-FLOOR TILE GROUT is recommended.

MIX RATIO:	POT LIFE:	OPEN TIME:	FINAL SET:	COVERAGE:
3 powder to 1 water (vol:vol)	30 – 40 minutes	20 minutes	2 - 3 hours	3 – 4 kg/sq. metre

MULTIFLEX is supplied in 5kg; 10kg and 20kg multi-ply, moisture resistant paper sacks and has a storage life of not less than 12 months if stored in dry, un-opened conditions. Should further technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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PRODUCT IDENTIFICATION:

COMPOSITION:

A Portland Cement (CAS 65997-15-1) based blend of lime, calcium silicates, calcium aluminates, graded silica sands; spray dried copolymers; organic additives and super - plasticisers

HAZARDS CLASSIFICATION: IRRITANT

Contains CHROMIUM VI- May produce an allergic reaction

RISK OF SERIOUS DAMAGE TO EYES

Contact with wet paste may cause dermatitis, irritation or burns

Wear suitable gloves, clothing and eye/face protection.

Avoid contact with skin and eyes.

Avoid breathing dust. Keep out of the reach of children

On contact with skin or eyes rinse immediately with plenty of water and seek immediate medical assistance after eye contact.

FIRST AID MEASURES:

INHALATION:

Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If nose or airways become inflamed or breathing difficulties occur, seek medical attention.

SKIN CONTACT:

Wash off skin immediately with warm soapy water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.

INGESTION:

Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Seek medical attention if mouth is inflamed

EYE CONTACT:

An instant response is essential. Irrigate thoroughly for 15 minutes with clean running water or eye wash bottle. Seek medical attention if eye irritation becomes inflamed.

FIRE FIGHTING MEASURES:

NON FLAMMABLE

Recommended extinguishers – Dry powder; Foam, CO2 – sacks may support combustion product will not.

Hazardous decomposition when subject to combustion – N/A

Special procedures – N/A

ACCIDENTAL RELEASE MEASURES:

Recover spillages in a dry state wherever possible. Do not allow wet residues to harden. Confine all residues in clearly marked sealed containers for disposal in accordance with Local Authority regulations for cement-based building products.

HANDLING & STORAGE:

Handling: Lifting operations must be no more than 1 x 25kg sack at a time by a competent operator wearing gloves. If stored correctly and used within 12 months of the date shown on this bag, the activity of the reducing agent will be maintained and this product will contain, when mixed, no more than 0.0002 % (2 ppm) soluble chromium (VI) of the total dry weight of the cement. Use of this product after the end of the declared storage period may increase the risk of an allergic reaction. [Risks associated with Chromium VI do not apply to the white version of this product].

EXPOSURE CONTROL / PERSONAL PROTECTION:

OEL 8hr TWA = 10mg/M3 total inhalable dust - 4mg/M3 respirable dust.