

WALL & FLOOR TILE ADHESIVE

Polymer Modified Cementitious Adhesive

- Internal & external
- Non-slip
- High adhesion strength
- Ceramic, porcelain & natural stone tiles
- Long pot life - minimal waste
- Available in Grey & White
- BS EN 12004 C1T



Norcross Wall & Floor Tile Adhesive is a cement-based thin bed adhesive designed for fixing ceramic, porcelain and natural stone* tiles to a variety of building surfaces. It is water and weather resistant. The product has a long pot life for ease of use and minimal wastage. In normal conditions tiles can be grouted 24 hours after fixing. The performance of Wall & Floor Tile Adhesive is significantly improved with the addition of Norcross Adi-Flex Additive, a polymer admixture which allows a greater range of installation possibilities to difficult surfaces including heated floors, old tiles and certain timber sheets.

*When fixing light coloured stone the White Wall & Floor Tile Adhesive or One Part Flexible White should be used to avoid staining.

Conforms to classification BS EN 12004 C1T

Cement:Sand Render	Yes
Anhydrite Screed	No
Existing Vinyl	Yes
Flooring Grade Asphalt	Yes
Existing Glazed Tiles	Yes Slurry bond coat
Heated Floors	No
Timber Floors	No
Plaster/Plasterboard	Yes Prime with undiluted Prime Bond
Total Immersion	No

EN Classification	BS EN 12004 C1T	
Working Time @ 20°C	Up to 4 hours	
Set Time @ 20°C	16 to 24 hours	
Bed Thickness	2mm to 6mm	
Coverage	Walls: Approx. 3kg/m ² Floors: Approx. 4kg/m ²	
Trowels:	Walls - Dry Areas	6mm round notches
	Walls - Wet Areas	10mm tapering notches
	Walls - Mosaics	4mm square notches
Floors	20mm round notches	

SURFACE PREPARATION

All surfaces should be dry, clean and strong enough to support the tiles to be fixed. Tiling substrates should be true and flat to permit fixing without visible lipping of tile edges. On floors, any gaps exceeding 3mm under a 2 metre straight edge should be corrected using a suitable Norcross Levelling Compound. This will be particularly appropriate where larger tiles or those with rectified edges are being installed. Porous or dusty surfaces must be sealed using Norcross Prime Bond diluted 1:4 with water.



Concrete/ Cement:Sand Screed

New concrete floors must be allowed to dry for a minimum of 6 weeks. Residual traces of laitance and curing agents should be mechanically removed before tiling commences. Screeds should be a minimum of 21 days old.

Cement:Sand Render

Must be at least 14 days old. New render should not be applied to new masonry walls until 6 weeks after the brick or blockwork has been completed. This allows for drying shrinkage to have taken place. In cold conditions these times will be extended.

Heated Floors (Dense Construction)

The addition of Adi-Flex in the adhesive will be necessary with both underfloor and undertile heating systems. After tiling, the floors should not be switched on for at least 14 days and then brought up to operating temperature gradually during the initial heating of the floor. Undertile heating cables and mats can be tiled directly or prior to tiling they can be bedded into a screed of suitable Norcross Levelling Compound. This method prevents damage to the heating elements during the laying process.

Thermoplastic Floor Tile/ Vinyl Sheet

If well stuck down and in good condition these should be degreased and sealed with neat Norcross Prime Bond.

Asphalt (Internal Only)

Must be in good condition, clean and able to support the tiling. Prime with neat Norcross Prime Bond.

Gypsum Plasterboard**

Seal with Norcross Prime Bond prior to tiling.

Gypsum Plaster**

Must be sealed with Norcross Prime Bond before tiling. If finishing plaster is polished, rub down to form a key before priming.

Glazed Surfaces

These must be well fixed and able to support the additional weight of tiling, clean, dry and free from grease. The addition of Norcross Adi-Flex into Wall & Floor Tile Adhesive will be required.

Timber Floors Overlaid With Plywood**

(BS EN 636-3 WBP/Marine Grade Plywood)

The tiling of internal plywood overlaid timber floors is possible with the addition of Adi-Flex into Norcross Wall & Floor Tile Adhesive. All sheets should be minimum 15mm thickness and be screwed down at 300mm centres. The sheets must be sealed on the back, face and edges with Prime Bond. All timber constructions must be adequately ventilated behind to prevent atmospheric moisture distortion and warpage of the boards themselves.

Beware of some grades of Eastern European and Far Eastern Plywood which may be susceptible to disintegration when wet. Plywood which has been treated/coated may not be suitable to receive a tiled finish as the coating may inhibit adhesion to the board.

**In wet areas or those of intermittent wetting such as shower areas, moisture sensitive backgrounds such as plaster should be waterproofed using Norcross Wet Seal Tanking Membrane.

MIXING

Into a clean pail add 0.24 to 0.25 litres of water of cold water and gradually introduce approximately 1kg of adhesive powder stirring to blend the mixed mortar to a smooth lump free consistency (approximately 4.8 to 5 litres/ 20kg bag). The properly mixed mortar will be thick enough to hold the adhesive ribs without slumping. When using Adi-Flex, substitute 50% of the water and mix the water and Adi-Flex together before introducing the powder. The product has an ease of use pot life of up to 4 hours however this may be extended in cold conditions and reduced in hot weather/warm temperatures.

APPLICATION

Using a suitably notched trowel spread the adhesive onto the fixing surface to form parallel ribs into which the tiles should be applied with a firm twisting action. Spread only enough material that remains workable and as such fully wets out on the tile backing. Solid-bed void-free fixing will be necessary on floors and in wet areas. Tiles with deeply keyed back profiles may need to be back buttered. The adhesive is designed for thin bed fixing up to 6mm although in isolated areas it can be bedded out up to 12mm in thickness. Tiles may be grouted as soon as the adhesive bed is set. Do not use below 5°C.

COVERAGE

On true surfaces with small tiles <200 x 200mm on walls approx. 2.75kg per m² and on floors approx. 3.3kg per m². With larger tiles >330 x 330mm on walls approx. 3.3kg per m² and on floors approx. 4kg per m².

STORAGE

Store in dry internal conditions away from direct sunlight between 5°C to 25°C. The product has a 12 month shelf life from date of manufacture.

TECHNICAL ADVICE


For advice on tile installation products call Norcross Technical Helpline on 01782 524140.

HEALTH & SAFETY



CONTAINS
 CHROMIUM VI
 DANGER

Causes skin irritation. Harmful if swallowed. Causes serious eye damage. May cause respiratory irritation. Keep out of reach of children. Avoid breathing dust. Wear protective gloves and eye protection. Wash hands thoroughly after handling. IF SKIN IRRITATION OCCURS: Get medical advice/attention. IF SWALLOWED: Call a poison centre or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician. Dispose of contents/container in accordance with local/regional regulations.

	EN 12004 : 2007 + A1 : 2010 Improved fast setting cementitious adhesive with additional characteristics for internal and external tiling			
	<table border="1"> <tr> <td>Reaction to fire</td> <td>Class E</td> </tr> <tr> <td>Release of dangerous substances</td> <td>See SDS</td> </tr> </table>	Reaction to fire	Class E	Release of dangerous substances
Reaction to fire	Class E			
Release of dangerous substances	See SDS			
Bond strength as:				
- Early tensile adhesion strength	≥ 0.5N/mm ²			
- High initial tensile strength	≥ 1N/mm ²			
Durability for:				
- High tensile adhesion strength after heat ageing	≥ 1N/mm ²			
- Tensile strength after water immersion	≥ 1N/mm ²			
- Tensile adhesion strength after freeze/thaw cycles	≥ 1N/mm ²			