







RAPID PORCELAIN TILE ADHESIVE

Highly Polymer Modified Fast Setting Cementitious Adhesive

-  **Flexible**
-  **Internal & external**
-  **Non-slip**
-  **High adhesion strength**
-  **Suitable for ceramic, porcelain & dark natural stone**
-  **BS EN 12004 C2F**



Norcross Rapid Porcelain Flexible Tile Adhesive is a grey cement-based thin bed adhesive designed for fixing fully vitrified porcelain, ceramic and stone* tiles to a variety of building surfaces. It is water and weather resistant and is suitable for both internal and external locations. It has a setting time of 3 hours at 20°C permitting early trafficking of the tiled installation. Containing unique Rock-Tite™ polymeric binders the enhanced flexibility of the adhesive allows a greater range of fixing possibilities normally only achieved by the addition of separate admixtures. The adhesive has excellent thermal ageing properties and is particularly suitable for heated floors and prepared plywood sheets.

*When fixing light coloured stone use a white adhesive such as Norcross Rapid Porcelain & Stone White to avoid staining.

Conforms to BS EN 12004 C2F

Cement:Sand Render	Yes
Anhydrite Screed	Yes Prime as overleaf
Existing Vinyl	Yes
Flooring Grade Asphalt	Yes
Existing Glazed Tiles	Yes Slurry bond coat
Heated Floors	Yes
Timber Floors	Yes Permalayer or plywood/ Pro Board/Pro Ply overlay
Plaster/Plasterboard	Yes Prime with undiluted Prime Bond
Total Immersion	Yes

EN Classification	BS EN 12004 C2F
Working Time @ 20°C	Up to 30 minutes
Set Time @ 20°C	3 hours
Bed Thickness	2mm to 6mm 12mm in small areas
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.

Anhydrite & Hemihydrate (Gypsum) Screeds

These must be cured to their respective manufacturers directions before tiling can begin. The surface must be free from laitance and primed using progressively stronger coats of Norcross Prime Bond as follows: Diluted 1:4 parts water. Allow to dry. Diluted 1:3 parts water. Allow to dry. If still porous a third coat diluted 1:2 parts water should be applied. Allow to dry.

Heated Floors (Dense Construction)

Rapid Porcelain Tile Adhesive is suitable for use with underfloor and undertile heating systems. On solid floor structures 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 (Refer to Norcross How to sheet 'Commissioning of Underfloor/Undertile Heating Systems'). Undertile heating cables and mats can be tiled directly or prior to tiling they can be bedded into a screed of a 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)

Flooring grade asphalt can be tiled directly with Norcross Rapid Porcelain Flexible Tile Adhesive providing it is in good condition, clean and able to support the tiling. Seal with undiluted Norcross Prime Bond and allow to dry before fixing commences.

Gypsum Plasterboard**

Seal with undiluted Norcross Prime Bond prior to tiling.

Gypsum Plaster**

Must be sealed with undiluted 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 old glazed surface must be thoroughly degreased and a slurry bonding coat made of 1 part Prime Bond: 2 parts Norcross Rapid Porcelain Flexible Tile Adhesive should be brushed onto the surface and allowed to dry. This will provide a key onto which the adhesive layer can bond.

Plywood Overlay onto Existing Timber Floors**

(Water & Boil Proof WBP Grade) Internal Tiling Only

All sheets should be a minimum of 15mm to 18mm thick and be screwed down to existing boards and joists with staggered joints at 300mm centres and 150mm centres along board edges. The sheets must be sealed on the back, face and edges with undiluted Prime Bond. All timber constructions must be adequately ventilated behind to prevent atmospheric moisture distortion and warpage of the boards themselves.

**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 1 part of cold water and gradually introduce approximately 3.5 parts of adhesive powder stirring to blend the mixed mortar to a smooth lump free consistency. The properly mixed mortar will be thick enough to hold the adhesive ribs without slumping. Mix only enough material that can be used within the pot life of the product which

will be around 30 minutes - this will 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. Under normal conditions this will be around 3 hours after fixing although this will be extended in cold conditions. 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.


Further information may also be obtained from the Norcross' How to sheets' available on the website.

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			

RAPID PORCELAIN & STONE TILE ADHESIVE

Highly Polymer Modified Fast Setting Cementitious White Adhesive

- ▣ Flexible
- ▣ Internal & external
- ▣ Non-slip
- ▣ High adhesion strength
- ▣ Suitable for ceramic, porcelain & natural stone
- ▣ BS EN 12004 C2F



Norcross Rapid Porcelain & Stone White Adhesive is a white cement-based thin bed adhesive designed for fixing fully vitrified porcelain, ceramic and stone tiles to a variety of building surfaces. It is water and weather resistant and is suitable for both internal and external locations. It has a setting time of 3 hours at 20°C permitting early trafficking of the tiled installation. Containing unique Rock-Tite™ polymeric binders the enhanced flexibility of the adhesive allows a greater range of fixing possibilities normally only achieved by the addition of separate admixtures. The adhesive has excellent thermal ageing properties and is particularly suitable for heated floors and timber floors when overlaid with WBP/Marine grade plywood.

Conforms to BS EN 12004 C2F

Cement/Sand Render	Yes
Anhydrite Screed	Yes Seal and prime as overleaf
Existing Vinyl	Yes
Flooring Grade Asphalt	Yes
Existing Glazed Tiles	Yes Slurry bond coat
Heated Floors	Yes
Timber Floors	Yes Permlayer or Plywood/ Pro Board/Pro Ply Overlay
Plaster/Plasterboard	Yes Prime with undiluted Prime Bond
Total Immersion	Yes

EN Classification	BS EN 12004 C2F
Working Time @ 20°C	Up to 30 minutes
Set Time @ 20°C	3 hours
Bed Thickness	2mm to 6mm 12mm in small areas
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. These drying times may be reduced to 48 hours if Norcross Permalayer anti-fracture membrane is used.

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.

Anhydrite & Hemihydrate (Gypsum) Screeds

These must be cured to their respective manufacturers directions before tiling can begin. The surface must be free from laitance and primed using progressively stronger coats of Norcross Prime Bond as follows: Diluted 1:4 parts water. Allow to dry. Diluted 1:3 parts water. Allow to dry. If the screed is still absorbent apply a third priming coat diluted 1:2 parts water. Allow to dry.

Heated Floors (Dense Construction)

Rapid Porcelain & Stone White Adhesive is suitable for use with 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 (Refer to Norcross How to sheet, 'Commissioning of Underfloor/Undertile Heating Systems'). Undertile heating cables and mats can be tiled directly or prior to tiling they can be bedded into a screed of a 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)

Flooring grade asphalt can be tiled directly with Rapid Porcelain & Stone White Adhesive providing it is in good condition, clean and able to support the tiling. Seal with undiluted Norcross Prime Bond and allow to dry before fixing commences.

Gypsum Plasterboard**

Seal with undiluted Norcross Prime Bond prior to tiling.

Gypsum Plaster**

Must be sealed with undiluted 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 old glazed surface must be thoroughly degreased and a slurry bonding coat made of 1 part Prime Bond: 2 parts Rapid Porcelain & Stone White Adhesive should be brushed onto the surface and allowed to dry. This will provide a key onto which the adhesive layer can bond.

Plywood Overlay onto Existing Timber Floors** (Water & Boil Proof WBP Grade) Internal Tiling Only

All sheets should be a minimum of 15-18mm thick and be screwed down to existing boards and joists with staggered joints at 300mm centres and 150mm centres along board edges. The sheets must be sealed on the back, face and edges with undiluted Prime Bond. All timber constructions must be adequately ventilated behind to prevent atmospheric moisture distortion and warpage of the boards themselves.

**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 1 part of cold water and gradually introduce approximately 3.5 parts of adhesive powder stirring to blend the mixed mortar to a smooth lump free consistency. The properly mixed mortar will be thick enough to hold the adhesive ribs without slumping. Mix only

enough material that can be used within the pot life of the product which will be around 60 minutes - this will 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. Under normal conditions this will be around 3 hours after fixing although this will be extended in cold conditions. 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.

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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.

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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