

THICK BED PORCELAIN & STONE GREY FLOOR TILE ADHESIVE



- ◆ 3 Hour Set
- ◆ Internal & External
- ◆ Flexible
- ◆ Undertile Heating
- ◆ 5—25mm
- ◆ Plywood Overlay
- ◆ Large Size Tiles





THICK BED STONE & PORCELAIN GREY FLOOR TILE ADHESIVE

Description

Norcross Thick Bed Stone & Porcelain Grey Floor Tile Adhesive is a grey cement based thick bed floor adhesive designed for fixing fully vitrified porcelain, ceramic and natural stone* tiles to a variety of floor surfaces. Its shrinkage compensating deep bed formulation makes it ideal for the installation of large format tiles and slabs affording excellent area contact without the need to back butter. It is water and weather resistant and is suitable for both internal and external locations. It has a setting time of 3 hours permitting early trafficking of the tile installations. 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

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

Surface Preparation

All surfaces should be dry, clean and strong enough to support the tiles to be fixed. **Norcross Thick Bed** can be used to patch repair and level uneven surfaces up to 25mm in one coat. Used as a thick bed solid bed adhesive it can compensate for local surface irregularities within the substrate without subsequent shrinkage and resultant stresses affecting the tiling plane itself. It should be noted that under standard conditions tiling substrates should be true and flat to permit fixing without visible lipping of the edges. On floors any gaps exceeding 3mm under a 2 metre straight edge should be corrected otherwise deviance within the tile plane may be evident, especially where large tiles and those with rectified edges are being installed. The use of either **Norcross Pro 50** or **Universal Floor Leveller** at the preparatory stage may be appropriate where deviance within the substrate is extensive. Porous or dusty surfaces must be sealed with **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 Permlayer anti-fracture membrane** is used.

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. Diluted 1: 2 parts water. Allow to dry.

Heated Floors (Dense Construction)

Thick Bed Stone & Porcelain Grey 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. Undertile heating cables and mats can be tiled directly or prior to tiling they can be bedded into a screed of either **Norcross Thick Bed Adhesive**, **Norcross Universal Floor Leveller** or **Norcross Pro 50 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 **Thick Bed Stone & Porcelain Grey Adhesive** providing it is in good condition, clean and able to support the tiling.

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 **Thick Bed Stone & Porcelain Grey 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 on 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 **Prime Bond**. All timber constructions must be adequately ventilated behind to prevent atmospheric moisture distortion and warpage of the boards themselves.

Mixing

Into a clean pail add 1 part of cold water and gradually introduce approximately 4 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. Tile with deeply keyed back profiles may need to be back buttered. The adhesive is designed for thick bed fixing up to 25mm. 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


At an average bed depth of 5mm, 5kg of adhesive will be required per 1m². At an approximate bed depth of 15mm a 20kg bag will cover approximately 1m².

Storage

Store in dry internal conditions away from direct sunlight between 5-25°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 0870 6092851**.

	
Norcross Adhesives, Harewood Street, Tunstall, Stoke-on-Trent Staffordshire, ST6 5JZ 13	
EN 12004: 2007 + A1 : 2010	
Improved fast setting cementitious adhesive with additional characteristics for internal and external tiling	
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	≥ 1 N/mm ²
Durability for:	
- High tensile adhesion strength after heat ageing	≥ 1 N/mm ²
- Tensile strength after water immersion	≥ 1 N/mm ²
- Tensile adhesion strength after freeze/thaw cycles	≥ 1 N/mm ²