

RAPID PORCELAIN & STONE WHITE ADHESIVE



- ◆ Flexible
- ◆ Fully Vitrified/Porcelain Tiles
- ◆ Limestone & Marble
- ◆ 3 Hour Set
- ◆ Internal & External
- ◆ Underfloor Heating
- ◆ Plywood Overlay
- ◆ High Bond Strength





RAPID PORCELAIN & STONE WHITE ADHESIVE

Description

Norcros 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

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 either **Norcros Universal Floor Leveller** or **Norcros Pro 50 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 **Norcros 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 **Norcros 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 bloc work has been completed. This allows for drying shrinkage to have taken place. In cold conditions these times will be extended.

Anhydrite & Hemihydrite (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 **Norcros 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)

Rapid Porcelain & Stone White 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 **Norcros Universal Floor Leveller** or **Norcros 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 **Norcros 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.

Gypsum Plasterboard**

Seal with **Norcros Prime Bond** prior to tiling.

Gypsum Plaster**

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

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

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 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 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. Tile 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 10mm 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 5-25°C. The product has a 12 month shelf life from date of manufacture.

Technical Advice

For advice on tile installation products call **Norcros Technical Helpline** on 0870 6092851.

Norcros 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