

RAPID PORCELAIN TILE ADHESIVE GREY

Highly Polymer Modified Fast Setting Cementitious Adhesive



- ◇ Flexible
- ◇ Fully Vitrified/Porcelain Tiles
- ◇ 3 Hour Set
- ◇ Interior & Exterior
- ◇ Underfloor Heating
- ◇ Plywood Overlay
- ◇ High Bond Strength
- ◇ BS EN 12004 C2F

A highly polymer modified fast setting grey cement-based powder adhesive designed for fixing all types of tiles to a variety of building surfaces in internal, external and total immersion locations. The high polymer level of the adhesive means that it only needs to be mixed with water to achieve the flexibility, water resistance and increased strength usually only obtained by the addition of separate polymer admixtures. The adhesive has excellent thermal ageing properties and is particularly suitable for heated floors and strengthened timber floors.

When fixing light coloured or translucent stone a white adhesive such as Norcross Rapid Porcelain & Stone White should be used to avoid staining.

Conforms to BS EN 12004 C2F.

Pot Life @ 20°C	Set Time @ 20°C	Bed Thickness	Coverage	Trowels
Up to 30 minutes	3 hours	2-6mm 12mm in small areas	Walls: Approx. 3kg/m ² Floors : Approx. 4kg/m ²	Walls: Dry Areas: 6mm round notches Wet Areas: 10mm tapering notches Mosaics: 4mm square notches Floors: 20mm round notches

Cement: Sand Render/ Screed	Anhydrite Screeds	Existing Vinyl/ Flooring Grade Asphalt	Existing Glazed Tiles	Heated Floors	Timber Floors	Plasterboard / Plaster	Total Immersion
Y	Y Seal & Prime As Overleaf	Y	Y Slurry Bond Coat	Y	Y Permalayer or Plywood/ Pro Board Overlay	Y Prime with undiluted Prime Bond	Y



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General Surface Preparation

All surfaces should be dry, clean and strong enough to support the tiles to be fixed. All traces of dirt, dust, laitance and other contaminants must be mechanically removed. Substrates should be true and flat to allow tiles to be fixed without visible lipping of tile edges. On floors, variations in surface level of the substrate which exceed 3mm under a 2 metre straight edge, should be levelled using either **Norcross Universal Floor Leveller** or **Norcross Pro 50 Levelling Compound**. This will be particularly appropriate where larger tiles, tiles with rectified edges or mosaics are being installed. Porous or dusty surfaces must be sealed using **Norcross Prime Bond** diluted 1: 4 with water.

SUBSTRATE	PREPARATION
CONCRETE/ POWER FLOATED CONCRETE	Must be a minimum of 6 weeks old. This may be reduced to 48 hours if Norcross Permalayer anti-fracture membrane is used. Power Floated concrete—brush apply a slurry bond coat consisting of 2 parts adhesive: 1 part Prime Bond & allow to dry
CEMENT: SAND SCREED	Must be a minimum 21 days old. This may be reduced to 48 hours if Norcross Permalayer anti-fracture membrane is used.
CEMENT: SAND RENDER	Must be at least 14 days old (21 days in total immersion areas). Blockwork must be at least 6 weeks old before render coat is applied.
ANHYDRITE/HEMIHYDRITE SCREED(GYPSUM) SCREEDS)	Dry in accordance with manufacturers recommendations. Mechanically remove all traces of laitance. Prime using progressively stronger coats of Norcross Prime Bond— 1: 4 with water: 1:3 with water & if still absorbent 1: 2 with water. Allow to dry between coats.
HEATED FLOORS	After tiling the heating should not be switched on for 14 days after which the temperature should be raised at a rate of 5°C per day to operating temperature. Undertile heating cables and mats should be encapsulated in a bed of either Norcross Pro 50 or Norcross Universal Floor Leveller
VINYL TILES/ASPHALT	Must be sound & in good condition. Prime with undiluted Prime Bond & allow to dry
GYPSUM PLASTER/ PLASTERBOARD**	Seal with undiluted Prime Bond & allow to dry. Plaster skim + backing coat must be a minimum 4 weeks old. Plaster skim only at least 7 days old. Maximum weight limits are: Plaster = 20kg/m ² : Plasterboard = 32kg/m ²
EXISTING GLAZED TILES	Must be well fixed and able to support the additional weight of tiling, Thoroughly clean and degrease & allow to dry before brush applying a slurry bonding coat consisting of 2 parts adhesive: 1 part Prime Bond. Allow to dry.
PLYWOOD OVERLAY ON EXISTING TIMBER FLOORS (WBP/MARINE GRADE)**	Plywood must be minimum 15-18mm thick and be screwed to existing boards and joists with staggered joints at 300mm centres and 150mm centres along board edges. Seal back, face & edges with undiluted Prime Bond & allow to dry. All timber construction must be adequately ventilated behind to prevent warpage of boards.

In wet areas or those with intermittent wetting such as showers, moisture sensitive backgrounds such as plaster should be tanked using **Norcross

Wet Seal Tanking Membrane

Mixing

Into a clean pail add 1 part of cold water and gradually introduce approximately 3.5 parts adhesive powder, stirring to blend the mixed mortar to a smooth lump-free consistency. The properly mixed adhesive will be thick enough to hold the adhesive ribs without slumping.

Application

Using a suitably notched trowel spread the adhesive onto the fixing surface to form parallel ribs into which the tiles should be laid with a firm twisting action. Spread only enough material that remains workable and as such fully wets out the back of the tiles. Solid void-free fixing is essential on floors and in wet areas on walls. Tiles, especially those with deep keyed back profiles may need additional back-buttering to ensure solid bed fixing is achieved. Tiles may be grouted as soon as the adhesive bed is set. Do not use below 5°C.

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 **01782 524 140**

CE	
Norcross Adhesives, Harewood Street, Tunstall, Stoke-on-Trent Staffordshire, ST6 5JZ	
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

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