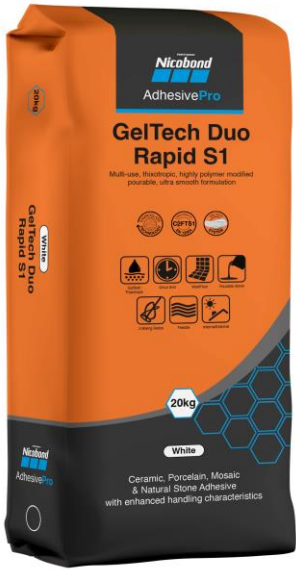




High performance products for tiling & flooring professionals

# GelTech Duo Rapid S1

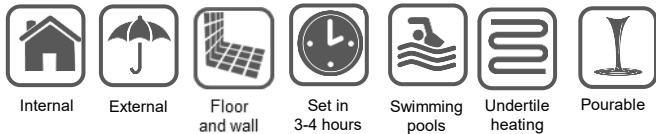


## Uses

For bonding large format floor tiles (300 x 300mm or larger) to:  
Sand/cement screeds • Concrete • Plywood overlay• Floor Tile Backer

## Features

Achieve up to 100% coverage with large format floor tiling  
Easier to achieve a true level floor  
Engineered to perfectly hold heavy larger format tiles  
Anti slump formulation  
Back buttering of tiles not always required  
Pourable for easier bedding  
Recommended for swimming pools  
Contains Enviroglass Technology – Glass cullet (waste) collected from N&C Glass factory re-used as a raw material to enhance performance of the product



## Description

- A premium, rapid setting wall and floor tile adhesive.
- Featuring exclusive GelTech technology, by varying the water addition rate can be used on floors up to 30mm bed depth as well as up to 12mm bed depth on walls.
- When prepared with the correct amount of water for floor applications the adhesive is initially pourable for ease of application over large areas.
- A thixotropic structure then forms, making it perfect for large format porcelain, ceramic and natural stone tiles ensuring reliable solid bed fixing to be achieved.
- Prepare with reduced water for wall applications for a nonslumping adhesive with excellent handling characteristics.
- Suitable for interior or exterior situations where a resilient bond is required.
- Exceeds requirements of BS EN 12004 C2FT S1

## Application Data

Colour	Grey & White
Mixing Ratio (Clean cold water only)	<b>Walls:</b> Approx 20kg to 4.0 to 4.5 litres of water (20.0 to 22.5% water) <b>Floors:</b> Approx 20kg to 5.0 to 5.5 litres of water (25.0-27.5%)
Mixing	Mechanically mix until a lump free smooth mortar is achieved Use immediately.
Consistency of mix	<b>Walls:</b> Slump free mortar <b>Floors:</b> Thixotropic pourable mortar
Bed thickness	<b>Walls:</b> up to 12mm <b>Floors:</b> 4mm up to 30mm
Coverage	Using a 20mm Round Notched Trowel 20kg of adhesive will cover: 4m <sup>2</sup> at 5mm thickness 1.9m <sup>2</sup> at 10mm thickness 0.6m <sup>2</sup> at 20mm thickness
Pot Life	Approx 45 hours at 20°C
Open Time	Approx 20 minutes at 20°C
Adjustability Time	Approx 20 minutes at 20°C
Setting time	Approx. 3 - 4 hours at 20°C
Grouting After Fixing	Approx 3 – 4 hours at 20°C
Ready For Light foot Traffic	Approx 3 - 4 hours at 20°C
Installation Temperature	5°C - 30°C
In Service Temperature	- 20°C to 70°C
Packaging	20kg poly lined paper sack
Shelf Life	At least 12 months from date of packing when kept clear of the ground and stored under dry conditions in unopened packaging. Protect from frost.

## EN 12004 Test Methods

EN 1308	Determination of slip
EN 1346	Determination of open time
EN 1347	Determination of wetting capability
EN 1348	Determination of tensile adhesive strength
EN 12002	Determination of transverse deformation

# GelTech Duo Rapid S1

## Description

A premium, rapid setting wall and floor tile adhesive. Featuring exclusive GelTech technology, by varying the water addition rate can be used both on floors up to 30mm as well as up to 12mm on walls. Its thixotropic structure makes it perfect for large format porcelain, ceramic and natural stone tiles ensuring reliable solid bed fixing is achieved.

## Fixing Procedure

Tile fixing should be carried out in accordance with BS5385 and BS8000 Codes of Practice for the installation of wall and floor tiles. Movement joints should be inserted in internal corners, at junctions with the floor and other locations as recommended in BS5385. Guides on recommended installation practices are available from The Tile Association (TTA).

## Preparation

Surface should be dimensionally stable, sound, clean, free from laitance, paints, salts, grease, dust and contamination which may impair adhesion. Any adhesive residues must be water resistant and firmly bonded to the substrate, compatible with the adhesive and be able to cope with the service conditions to which the completed installation is exposed to.

## Substrates

Porous Cementitious surfaces must be primed to control suction. Use Nicobond Primer diluted 4 volumes water to 1 volume Nicobond Primer. Nicobond Tile Backer Board can also be primed the same way if necessary.

**Cement: Sand Renders** must be left for 2 weeks before tiling and **Cement: Sand Screeds** must be cured for a minimum of 3 weeks before tiling. Nicobond ScreedPro Rapid Drying Cement Replacement (formally known as Cement Mix) may be substituted for OPC in cement: sand screeds giving environmental benefits and allowing tiling to commence after only 3 hours. See data sheet for further information.

## Light weight concrete blocks

These must have an intermediate substrate, such as Nicobond Tile Backer Board, affixed prior to tiling. This is due to the probability for high drying shrinkage dependent on the block selected for use.

**New concrete, concrete blocks and bricks and calcium silicate bricks** must be allowed cure for at least 6 weeks before rendering, screeding or direct fixing.

## Plaster

New plasterwork should be completed at least 4 weeks previously and should be dry throughout. Tiles should only be fixed to the finish coat, never direct to the backing coat. Plasterwork is unsuitable as a background for tiling in wet areas. Apply a suitable Nicobond waterproofing system in wet areas.

Remove dust and apply a brush coat of a blend of 3-parts water to 1-part Nicobond Primer. Allow layer to thoroughly dry before continuing. Nicobond Primer at this dilution will cover approximately 25m<sup>2</sup> per litre.

## Plywood and other wood-based sheets or boards

In line with BS5385 sheets and boards that are subject to movement from changes in moisture content should not be used. Plywood and other wood-based sheets or boards should not be used for direct tiling. Overlay with Nicobond Tile Backer Board, Nicobond D-Mat 3L or Nicobond PlasticPly as per the latest Technical Data Sheet (TDS). If the floor has already been fitted out with at least 15mm thick suitable plywood fixed at a minimum of 300mm centres according to The Tile Association guidelines, overlay with products as outlined above.

## Tiling to an Anhydrite/Gypsum Screed

The screed should be suitably prepared to receive floor tiling. e.g. a 40mm thick anhydrite screed requires typically 40 days drying time, in good conditions. The moisture content of anhydrite screed must be ≤75% R.H. It is the responsibility of the main contractor to ensure that the moisture content levels are monitored as drying out proceeds and the process may be aided, after day 1, with good air flow, the use of the heating system and/or dehumidifiers. Vacuum up dust or other loose material. NOTE there is further information on the drying of calcium sulphate-based screeds is given in *Tiling to Calcium Sulphate Based Screeds* prepared by The Tile Association. Anhydrite/Gypsum screeds are incompatible for direct fixing with cement-based tile adhesives, and they must be isolated from each other. Once suitably mechanically prepared and dry apply two coats of diluted Nicobond Primer 3 parts water to 1 part primer at right angles to each other one the first coat has dried.

## Tiling to Existing floor tiles (unglazed ceramic tiles, quarry tiles and natural stone and hard vinyl tiles) and flooring grade asphalt

Thoroughly clean & degrease. Apply Nicobond Gritted Primer and allow to dry. Alternatively prepare a slurry bond coat using 1 volume Nicobond GelTech Duo Rapid (or equivalent Nicobond S1 adhesive), 1 volume Nicobond Primer and 1 volume water. Allow to cure before tiling. Ensure that the existing finish is firmly adhered to the floor base. If any areas are loose or hollow sounding the tiles need to be removed and made good.

## Under Floor Heating screed (UFH) or Under Tile Heating (UTH):

Ensure any existing UFH/UTH is turned off a minimum of 24 hours before tiling. Following completion of the installation the tile adhesive must be fully dry (minimum 10 days) before the heating is switched on at a maximum rate of 5°C per day.



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# GelTech Duo Rapid S1

## Application

### **Wall Tiling - Thin Bed Method**

Spread the prepared adhesive with the straight edge of a Nicobond Notched Trowel to a maximum depth of 3mm. Reverse the Trowel and comb the adhesive with the Notched Edge, ensuring that continuous horizontal ribs of adhesive are formed.

### **Wall Tiling - Thick Bed Method**

Working up to the maximum bed thickness specified for the product spread the prepared adhesive with the straight edge of the Nicobond Notched Trowel. Reverse the Trowel and lightly comb the surface of the adhesive with the notched edge ensuring that continuous, horizontal ribs of adhesive are formed. In areas of high moisture, or for exterior work, the solid bed fixing method must be used, i.e. no voids behind the tiles.

### **Floor Tiling - Thick Bed Method**

Prepare Nicobond GelTech Duo Rapid using the water ratio for floors. If desired the adhesive can be poured onto the substrate to be tiled. Use the straight edge of the Nicobond Notched Trowel up to the maximum depth specified for the product. Lightly comb over the surface of the adhesive using the notched edge of a suitably sized trowel to achieve the desired bed depth up to a maximum of 30mm. Where tiles have deep keys or studs, spread adhesive onto the back of the tile to fill the keys or spaces between studs.

### **Tile Fixing**

Fix dry tiles immediately by pressing them firmly into position with a slight sliding or twisting action. Where appropriate, the adhesive can be spread both onto the surface as described above and buttered on the backs of the tiles. Whichever method is used, the tiles should be firmly tamped or pressed home to ensure solid bedding without voids, particularly on flooring installations. Floors should not be opened to traffic until the adhesive has hardened. Occasionally remove a tile to check that full contact has been made with the adhesive bed. Exterior installations must be protected from rain and frost until the adhesive has fully set. Where fixing is carried out in hot conditions, the finished tiling should be protected from direct sunlight to avoid premature drying.

## Grouting

Under normal conditions (at approx. 20°C) grouting may be carried out after 3 - 4 hours after tile fixing; an impervious substrate, use of porcelain bodied tiles and low temperatures may extend the setting time and delay the grouting operation. Grout joints may be filled with Nicobond GroutPro Flexible Cement based grout or for enhanced stain a water resistance in regularly wetted areas Nicobond Starlike evo two-part epoxy extreme performance grout can be considered. Nicobond Starlike evo two-part epoxy extreme performance grout must always be used in wet room installations and swimming pools or other areas of permanent submersion. Both grouts are available in a wide range of colours. Minimum joint width is 2mm. Leave installations a minimum of 14 days after completion of grouting with a cement-based grout before allowing contact with water. Minimum 7 days for epoxy grouts.

## Cleaning

During application, any residual adhesive must be washed from the face of tiles before it sets. Tools should be washed in water immediately after use.

Store unopened in a cool dry place, off the ground. Protect from excess draught.

See Nicobond "Tiling Systems the directory" for full details of our extensive range of tiling and flooring products and tiling solutions. Refer to the latest version of our Technical Data Sheets and Safety Data Sheets to ensure compatibility before use, these can be downloaded from our website

[www.ncnicobond.com](http://www.ncnicobond.com)

## **Manufacturer's Warranty**

Nicobond products are covered by our lifetime warranty. If the materials prove to be defective due to manufacturing, they will be replaced or money refunded. We do not accept any liability for workmanship or any consequential loss or damage.

## **Health & Safety Advice**

Avoid breathing dust

Wash hands, forearms and face thoroughly after handling

Wear protective gloves, protective clothing, eye protection, face protection

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing. If skin irritation or rash occurs: Get medical

advice/attention. Take off contaminated clothing and wash it before reuse. Call doctor if you feel unwell.

WHITE UFI: GU80-F0SD-E00V-6XEA

GREY UFI: WR80-Y030-400D-HKU6



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