



**Nicobond**

Products for the Professional

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October 2018

Product Data Sheet

# Rapidflex Fibre S2

**Description**

Rapidflex Fibre S2 is a highly versatile single part white or grey rapid setting cement-based tile adhesive. It is highly polymer modified and fibre reinforced to achieve EN 12004 S2 classification. Exhibiting enhanced properties of adhesion with excellent flexibility Rapidflex Fibre S2 is ideal for fixing all types of tiles in interior or exterior situations under demanding conditions including green screeds.

**Uses**

For use in situations where vibration occurs or where a resilient bond is required to : • Sand/cement screeds and rendering • Brick and blockwork • Nicobond Tile Backing Board other proprietary boards • Concrete • Plasterboard • Plywood Floors • Wooden Floors • Glazed surfaces • Flooring grade asphalt • Hard vinyl tiles.

**Features**

- Highly flexible cement based tile adhesive
- Bonds to green screeds
- Major savings against a traditional adhesive that use admixes
- Internal and external applications
- Suitable for tiling swimming pools
- Bonds to timber floors
- Rapid bond strength development
- Grout after 3 – 4 hours
- Compatible with Under-tile heating systems.

**Application Data**

Colour	Grey & White
Mixing Ratio (clean cold water only)	Grey/White - Approx 3-3½ volumes of powder into 1 volume clean water. (approx 4.5 litres of water to 20kg of powder.)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency, use immediately.
Consistency of mix	slump resistance mortar
Bed thickness	Up to 12 mm
Coverage	Notched Trowel method: 2kg per m <sup>2</sup> Solid bed. 3-4 per m <sup>2</sup> at 3mm
Pot Life	Approx 30 minutes at 20°C
Open Time	Approx 10 minutes at 20°C
Adjustability Time	15 – 20 minutes at 20°C
Setting time	approx 3 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	Minimum 5°C to 30°C
Operating Temperature	- 20°C to 100°C
Packaging	20kg

EN 12004 - 2: 2017 Test Methods	
Section 8.1	Determination of open time
Section 8.2	Determination of slip
Section 8.3	Determination of tensile adhesive strength
Section 8.6	Determination of transverse deformation



The adhesive shall be Nicobond Rapidflex Fibre S2 as manufactured by N&C Building Products Limited, 41-51 Freshwater Road, Chadwell Heath, Romford, Essex, RM8 1SP, England. Tel: 020 8586 4600 and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



## Products for the Professional

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#### Priming

Sealing and Priming cementitious and other surfaces  
– Use Nicobond Primer diluted with water.

Highly Absorbent cementitious surfaces and difficult substrates  
– Use Nicobond Primer diluted with water and blended with the cement based product to be used.

Priming of interior gypsum based plaster and timber substrates  
– Use Nicobond Universal Bonding Agent and Sealer.

Primers should be used in accordance with the manufacturer's instructions  
– refer to Nicobond Primer data sheet.

#### Surface Preparation

Surfaces to be tiled should be rigid, dimensionally stable, sound, clean and free from laitance, paints, salts, grease, dust and any contamination which may prevent adhesion. Sand : Cement screed should be a minimum of 7 days old and sufficiently hard to accept foot traffic. On refurbishment work it is recommended that any residual quantities of old adhesive be removed to expose approximately 80% of the original substrate, any remaining residues must have a cohesive strength to support the application of any Nicobond product.

#### 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.

##### Notched Trowelling and buttered method

In accordance with BS 5385 – 3, the adhesive should be applied to the sub – floor as well as the back of the tile to ensure solid bed fixing. Apply the mixed adhesive to the floor with the straight edge of the Nicobond Notched Trowel to the appropriate depth and then lightly comb over the surface of the adhesive using the notched edge of the Trowel. Apply a thin layer of adhesive to the back of the tile and press firmly onto the layer of adhesive on the floor. Floor tiles should not be spot fixed.

##### Bonding of the Tiles

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.

From time to time 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.

#### Tile Fixing

Tile fixing should be carried out in accordance with BS 5385 and BS 8000 Codes of Practice for the installation of wall and floor tiles. Movement joints should be inserted in internal corners, at floor perimeters and other locations as recommended in relevant British codes of practice.

**Note** – In all cases work in small areas of about 1m<sup>2</sup> with this fast setting adhesive to avoid premature drying before cladding is fixed.

For advice on tiling to different substrates refer to Nicobond Tiling Products the directory .

#### Shelf Life

12 months in unopened bags from the date of packing.

#### Storage

This product must be clear of the ground stored under dry conditions. Protect from frost.

#### Cleaning

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

#### Health & Safety Advice

Nicobond Rapidflex Fibre S2 is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Nicobond Rapidflex Fibre S2 contains cement (Contains Chromium (VI) May cause an allergic reaction). Harmful by inhalation. Contact with water causes an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes therefore suitable protective gloves, clothing and goggles should be used. Keep away from children.

The relevant Material Safety Data Sheet can be obtained from [www.ncnicobond.com](http://www.ncnicobond.com) or directly from N & C Building Products Ltd at the address below.

N & C Building Products Limited  
41-51 Freshwater Road  
Chadwell Heath  
Romford  
Essex RM8 1SP  
Tel: 020 8586 4600  
Fax: 020 8586 4646  
Email: [info@nichollsandclarke.com](mailto:info@nichollsandclarke.com)  
Web: [www.ncnicobond.com](http://www.ncnicobond.com)