

Product Data Sheet

Large Format Flex S1

Description

A fast setting flexible and pourable adhesive designed to be of fluid consistency to aid bedding of larger format tiles. A single part, fast setting, water resistant, polymer modified, pourable flow bed adhesive for easier installation of large format ceramic, porcelain, and natural stones in interior or exterior situations where a resilient bond is required.

Exceeds requirements of BS EN 12004.

Uses

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

Features

- Pourable adhesive for easier bedding
- Flow bed consistency facilitates solid bedding
- Set and Grout within 3 hours
- Internal and external applications
- Suitable for floor tiling in swimming pools
- Compatible with Under-tile heating systems.

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
EN12002	Determination of transverse deformation

Application Data	
Colour	Grey & White
Mixing Ratio	Approx 3 volumes of powder into 1 volume clean water. (approx 5 kg to 1 litre.) 20kg to approximately 4.8 litres water).
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	Flow Mortar
Bed thickness	From 4mm up to 30mm
Coverage	Using a 20mm Round Notched Trowel 20kg of adhesive will cover: 4m ² at 5mm thickness 1.9m ² at 10mm thickness 0.6m ² at 20mm thickness
Pot Life	Approx 20 minutes at 20°C
Open Time	Approx 10 minutes at 20°C
Adjustability Time	Approx 10 - 15 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 - 25 °C
Operating Temperature	- 20°C to 100°C
Packaging	20kg



The adhesive shall be Nicobond Large Format Flex 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. 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

Floor Tiling

The mixed adhesive should be applied with the straight edge of the Nicobond Large Format Notched Trowel up to the maximum depth specified for the product. Lightly comb over the surface of the adhesive using the half round notched edge of the Trowel. Although the adhesive has excellent flow characteristics and wetting out, it may be appropriate to back butter tiles which have deep keys or studs on the reverse to ensure solid bedding. In areas of high moisture, or for exterior work, the solid bed fixing method must be used, i.e. no voids behind the tiles.

Bonding of the Tiles

Fix dry tiles immediately by pressing them firmly into position with a slight sliding or twisting action and tamped firmly or pressed home to ensure solid bedding without voids. 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.

Note – In all cases work in small areas of about 1m² with this fast setting adhesive to avoid premature drying before floor tiles are fixed.

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.

For advice on tiling to different substrates refer to the Nicobond How to Tile Guide.

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 Large Format Flex S1 is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Nicobond Large Format Flex S1 contains cement, (contains Chromium VI), may cause an allergic reaction. Contact with water causes an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes. Wear suitable protective clothing, gloves and eye/face protection. Keep away from children.

The relevant Material Safety Data Sheet can be obtained from www.nicnicobond.com or directly from N & C Building Products Ltd at the address below.

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