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High performance adhesives, screeds & tiling systems for the professional

April 2023

## Product Data Sheet

# PatioPro Adhesive

### Description

**Nicobond PatioPro** Adhesive is a high-performance polymer modified, single part, highly flexible, rapid setting, non-slip, Grey cement-based adhesive, formulated to provide enhanced properties of adhesion to a variety of surfaces on walls and floors in external and internal situations.

Meets the requirements of **BS EN 12004 C2FT S1**

Highly flexible, **Nicobond PatioPro** Adhesive is ideal for fixing brick slips and ceramic, fully vitrified, porcelain, mosaics and natural stone tiles.

### Features

- S1 Deformability Rating
- Excellent initial grab - non-slip
- Internal and external applications
- Suitable for tiling swimming pools
- Rapid bond strength development
- Grout after 3 hours
- Compatible with Under-tile heating (UFH) systems.

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

### Application Data

Colour	Grey
Mixing Ratio (clean cold water only)	Grey - Approx 3-3½ volumes of powder into 1 volume clean water. (Approx 4 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 resistant mortar
Bed thickness	3mm to 12 mm
Maximum bed thickness	12mm
Coverage	Notched Trowel method: 2kg per m <sup>2</sup> Solid bed. 3-4kg per m <sup>2</sup> at 3mm
Pot Life	Approx 30 - 45 minutes at 20°C
Open Time	10 - 15 minutes at 20°C
Adjustability Time	10 -15 minutes at 20°C
Setting time	approx 3 hours at 20°C
Grouting After Fixing	Approx 3 hours at 20°C
Ready For Light foot Traffic	Approx 3 – 4 hours at 20°C
Installation Temperature	Minimum 5°C
Service Temperature	- 20°C to 100°C
Packaging	20kg



The adhesive shall be Nicobond PatioPro Adhesive 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.



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### Preparation

For direct bonding of porcelain tiles, a solid concrete base should be formed and cured in accordance with established standards. For fast-track applications the use of a rapid curing/drying base mix enables tiles to be laid in only 3 days. Ensure the base is sufficiently flat, free from laitance, dust or any contaminants which might hinder adhesion. Nicobond Primer used neat or diluted as per manufacturers guidance may also be required to seal porous substrates or as a priming coat for wall cladding.

### Mixing:

Each bucket contains 1 x 15kg paper sack of powder which can be put to one side to enable use of the bucket for mixing. Pour sufficient water into the bucket based on a ratio of approximately 3.3 litres of clean cold water to 15kg powder (approx. 1 volume of water to 4.5 volumes of powder) and then gradually add the powder whilst mechanically mixing thoroughly until the mixture becomes achieves a smooth consistency. These mixing proportions are approximations only and care should be taken to reach the correct working consistency. The pot life of the adhesive is approximately 45 minutes at 20°C.

### Application:

#### Walls and Floors:

Spread the adhesive onto the surface using the straight edge of a notched trowel to a depth of approximately 3-4mm. The size of trowel and thickness of the adhesive bed will differ according to the application and size of tiles being laid. It is vital that there are no voids under external wall and floor tiles, Comb the top surface of the adhesive with the notched edge to create uniform ribs of adhesive. For smaller wall cladding tiles, the tiles can be pressed and twisted into position to achieve good contact. Fix dry tiles immediately. For large format porcelain and floor applications it is recommended to back butter the tiles with a thin layer of adhesive into to achieve solid bedding. Do not spot fix tiles. Do not leave voids when floor tiling. The maximum bed depth of Patio & Wall Cladding Adhesive is 12mm. Optimum installation temperature is +5°C to +30°C. Do not use below or above these temperatures.

Note: 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 20°C the installation may be grouted after approximately 3 hours after tiling using **Nicobond PatioPro Grout**. An impervious substrate coupled with porcelain tiles and lower temperatures may extend the adhesive setting time and delay grouting.

**Coverage:** Approximately 4-5m<sup>2</sup> per 15kg bucket at 3mm thick, solid bedding.

### 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 the Nicobond How to Tile Guide.

#### Shelf Life

At least 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 PatioPro Adhesive** is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. **Nicobond PatioPro Adhesive** 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.

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