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## Product Data Sheet

April 2023

# PatioPro Grout

### Description

**Nicobond PatioPro Grout** – A superior, highly polymer modified flexible wall and floor tile grout. Suitable for glass, ceramic, porcelain, mosaic, quarry and natural stone tiles Grout Pro Flexible has anti efflorescent, anti mould and the unique Aquablok technology water repellent properties.

PatioPro Grout can accommodate both narrow and wide joints producing a smooth and attractive surface finish in a wide range of uniform colours.

PatioPro Grout provides versatility, weathering resistance and has excellent bonding capabilities to glazed or the porous edges of tiles. Once hardened it is unaffected by water and can be used for internal and external tiling in dry and wet conditions, including swimming pools with non-aggressive water conditions.

Application Data	
Colours:	Cream, Coffee, Silver Grey, Mid Grey, Slate Grey and Black
Mixing Ratio:	Approx 3 volumes of powder into 1 volume clean water . 2.5kg: Approx 650 ml water
Consistency of Mix:	Firm smooth paste
Joint Width:	2 – 20mm
Compressive Strength after dry storage:	22N/mm <sup>2</sup>
Compressive Strength after freeze-thaw cycle:	17N/mm <sup>2</sup>
Flexural Strength after dry storage::	≥2.5N/mm <sup>2</sup>
Flexural Strength after freeze-thaw cycle::	≥2.5N/mm <sup>2</sup>
Shrinkage:	Shrinkage compensated
Pot Life:	25 - 40 minutes dependent on temperature.
Initial Set Time:	Approx 90 minutes at 20°C
Light Foot Traffic::	Approx 3 hours at 20°C
Installation Temperature:	5°C - 30
Operating temperature in service:	-20°C to 100°C
Packaging	6x2.5kg polythene formed and sealed bags

### Features

- 2 – 20mm Joint widths
- Flexible – Ideal for timber floors
- Ideal for patio and similar external applications
- Ideal for conservatories outdoor/indoor living
- Anti efflorescence properties
- Aquablok technology for superior water repellence
- UV Resistant
- Mould Resistant
- Good stain resistance
- Suitable for use with Under tile Heating (UFH)
- Ideal for situations where slight background movement or vibration is likely.
- Excellent compaction –virtually Non-permeable
- Easy to use with excellent handling characteristics
- Suitable for showers (installation must not be used for 14 days after grouting)

EN 13888 Test Methods	
EN 12808-2	Abrasion Resistance
EN 12808-3	Flexural and Compressive Strength
EN 12808-4	Shrinkage
EN12808-5	Water Absorption



The Grout shall be Nicobond PatioPro Grout 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

Ensure tiles are firmly fixed and joints are clean, free of dust, excess adhesive and bedding mortar and any other contaminants that will hinder the adhesion of **Nicobond PatioPro Grout**. Tiles which have been fixed to impervious surfaces such as dense concrete or existing glazed tiles should not be grouted for several days after completion of fixing; this will allow the moisture from the adhesive to dry out through the joints.

### Mixing

Mechanically mix only at 3:1 powder: water. Do not add additional water and mix thoroughly until a uniform mix is achieved. Pour into a clean mixing container the required amount of clean cold water slowly add the powder whilst stirring thoroughly until a creamy, easily worked mortar is obtained. Higher temperatures shorten the working time. The mixing proportions by volume of **Nicobond PatioPro Grout** are approximate only.

### Grout Application

Do not commence grouting if rain is forecast or the temperature or overnight temperature is forecast to drop below 5°C. Protect area from strong direct sunlight to prevent the grout from drying out too quickly. The pot life of the grout is approximately 25 – 40 minutes at 20°C. To avoid the risk of staining test the grout in an inconspicuous area first. Depending on the finish of paving used, **Nicobond PatioPro Outdoor Porcelain Tile & Grout Sealer** may be required to avoid "picture framing".

Using a rubber squeegee, work the mixed grout mortar thoroughly into the clean joints ensuring they are fully filled. Remove surplus grout as work proceeds using the rubber squeegee initially. The joints should be finished off as flush with the tile surface as is practicable at this stage. Wait for approximately 60-75 minutes, subject to site conditions before cleaning grout off ensuring the grout is sufficiently firm in the joints. There must not be any wet transfer when dabbed lightly with a finger. This is vital as not doing this may impair the consistency and finish of the grout once cured. Using a damp, not wet good quality tilers sponge work diagonally across the surface of the tiles and avoid running the sponge down the joints as this may remove excess material. If a wash boy is to be used, then it must be of a good quality with a dense foam pad and well rung out (6 passes over the rollers minimum is recommended). Replace water frequently as contaminated water may result in a film on the tiles and ensure as much grout is removed from the surface during this process. Avoid getting grout into the surface of tiles with a rough surface.

Excessive use of water when mixing or during application or cleaning, overworking the grout in the joints or forced drying may cause shade variation and must be avoided. Polishing of the tiles is best carried out with a clean, dry cloth and should begin only when the grout has set firm enough not to be damaged (Approx. 3 hours).

**Nicobond PatioPro Grout** can be used for external showers, but they should not be used for 14 days once grouting of the installation has been completed.

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

### Coverage

Calculations will change when using different tile/joint dimensions and are set as a guide only:-

<b>(Tile length + tile width) x tile thickness x joint width</b>	
<b>Tile length x tile width x 2</b>	
<b>Wall Tiles</b>	
<b>10 x 10 x 0.5cm, 2mm joint</b>	0.4 kg/m <sup>2</sup>
<b>30 x 10 x 0.8cm, 2mm joint</b>	0.42kg/m <sup>2</sup>
<b>30 x 30 x 0.5cm, Mosaic</b>	0.84 kg/m <sup>2</sup>
<b>Sheet, 2mm joint</b>	
<b>60 x 30 x 0.8cm, 3mm joint</b>	0.24 kg/m <sup>2</sup>
<b>Floor Tiles</b>	
<b>33 x 33 x 0.8cm, 4mm joint</b>	0.38 kg/m <sup>2</sup>
<b>45 x 45 x 0.9cm, 4mm joint</b>	0.32 kg/m <sup>2</sup>
<b>60 x 60 x 1.0cm, 4mm joint</b>	0.27 kg/m <sup>2</sup>
<b>Patio 20mm tiles</b>	
<b>60 x 60 x 2.0cm, 5mm joint</b>	0.66 kg/m <sup>2</sup>
<b>120 x 60 x 2.0cm, 5mm joint</b>	0.50 kg/m <sup>2</sup>

### 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

Tools should be cleaned frequently in water to avoid the grout drying on. Residual grout must be washed off the face of the tiles before it dries.

### Precautions

Certain types of tile may be prone to surface discolouration or scratching when using this grout, e.g., some natural stone or absorbent, textured or soft glazed ceramic tiles. Consult BS 5385: Part 1: 1995 for further information consult Nicobond Technical department or the tile manufacturer/distributor for advice. If in doubt carry out a trial application on an unfixed off-cut off tile.

### Health & Safety Advice

**Nicobond PatioPro Grout** is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. **Nicobond PatioPro Grout** contains cement, 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.ncnicobond.com](http://www.ncnicobond.com) or directly from N & C Building Products Ltd at the address below

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