**Product Data Sheet**

**Mosaic Adhesive & Grout**

**Description**
Nicobond Mosaic Adhesive & Grout is a dual Purpose - Adhesive and Grout. For bonding and grouting paper faced or mesh backed ceramic mosaic and glass mosaic to concrete, brickwork and cement rendered or screeded surfaces. Suitable for interior or exterior applications including swimming pools.

**Uses**
Also suitable for fixing and grouting ceramic and porcelain wall and floor tiles. When mixed with diluted Nicobond Enhancer 2002, can be used for bonding to: clean, sound, glazed, painted surfaces, steel, “polished” concrete, power-floated screeds, plywood and Tile backing boards, e.g., Aquapanel. Flooring grade asphalt.

Exceeds the performance requirements of BS EN 12004.

**Features**
- Dual purpose Adhesive and Grout
- Use to fix Porcelain or homogenous tiles.
- Use to fix Marble and stone
- Internal and external applications
- Suitable for tiling swimming pools
- Compatible with Under-tile heating systems.

**Application Data**

<table>
<thead>
<tr>
<th>Colour</th>
<th>Grey &amp; Super White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing Ratio (Water only)</td>
<td>Grey / super white - Mixing Approx 2.5 volumes powder to 1 volume of clean water. (Approx 20kg to 5.0 litres water)</td>
</tr>
<tr>
<td>Mixing Ratio (with Nicobond Enhancer 2002)</td>
<td>For every 100kg of powder, mix approx 17 litres of Enhancer and 17 litres of clean water and use as the gauging liquid.</td>
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<tr>
<td>Mixing</td>
<td>For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency, use immediately.</td>
</tr>
<tr>
<td>Consistency of mix</td>
<td>slump resistance mortar</td>
</tr>
<tr>
<td>Bed thickness</td>
<td>Up to 10mm</td>
</tr>
<tr>
<td>Coverage</td>
<td>For mosaics 95 x 45 x 5mm with 5mm joints using 3mm adhesive bed – approx 5kg/m².</td>
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<tr>
<td>Pot Life</td>
<td>Approx 1 hour at 20°C</td>
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<tr>
<td>Open Time</td>
<td>10 - 15 minutes at 20°C</td>
</tr>
<tr>
<td>Adjustability Time</td>
<td>20 minutes at 20°C</td>
</tr>
<tr>
<td>Setting time</td>
<td>Approx 1 - 3 hours at 20°C</td>
</tr>
<tr>
<td>Grouting After Fixing</td>
<td>Approx 1 – 3 hours at 20°C</td>
</tr>
<tr>
<td>Ready For Light foot Traffic</td>
<td>Approx 3 - 3 hours at 20°C</td>
</tr>
<tr>
<td>Installation Temperature</td>
<td>Minimum 5°C - 30°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>- 20°C to 100°C</td>
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<tr>
<td>Packaging</td>
<td>20kg</td>
</tr>
</tbody>
</table>

EN 12004 Test Methods

<table>
<thead>
<tr>
<th>EN 1308</th>
<th>Determination of slip</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 1346</td>
<td>Determination of open time</td>
</tr>
<tr>
<td>EN 1347</td>
<td>Determination of wetting capability</td>
</tr>
<tr>
<td>EN 1348</td>
<td>Determination of tensile adhesive strength</td>
</tr>
</tbody>
</table>

The adhesive shall be Nicobond Mosaic Adhesive & Grout as manufactured by N&C Building Products Limited, 41-51 Freshwater Road, Chadwell Heath, Romford, Essex, RM8 1EP, England. Tel: 020 8586 4600 and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.
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
Mosaic Fixing – Interior and Exterior Installations
Spread the mixed adhesive onto the substrate using the straight edge of the Nicobond Notched Trowel to give an even layer of adhesive up to a maximum bed depth of 10mm. Lightly comb the top surface of the adhesive using the notched edge of the trowel.

For paper faced mosaic, butter the reverse side of the mosaic sheet with the mixed Nicobond Mosaic adhesive and Grout. Ensure the joints and any grooves on the Tesserae are completely filled. Immediately press the sheet of mosaic firmly into position using a slight sliding or twisting action. Mesh backed mosaic should be pressed directly into the wet adhesive layer. It is essential all Tesserae are solid bedded in the adhesive.

Grouting
Should not be carried out until the adhesive has set. Joint width should not exceed 10mm.

For paper faced mosaic, wet the paper thoroughly, preferably using a sponge and peel off carefully. Any imperfections in the grouting should be made good with fresh Nicobond Mosaic Adhesive and Grout. Mesh backed mosaic should be grouted using conventional grouting techniques.

The Nicobond Float Grouter is ideal for this application. Remove surplus grout as work proceeds and clean off at intervals with a damp cloth before the product sets. Polishing of the mosaic is best carried with a clean, dry cloth which should begin when the film of Nicobond Mosaic Adhesive and Grout remaining on the surface has just dried.

Swimming Pool installations should remain empty for at least three weeks after completion of grouting before being filled with “balanced” water.

Exterior installations must be protected from frost until the adhesive has fully set. It is preferable to protect the finished tiling from direct sunlight to avoid premature drying. In hot conditions, joints should be mist sprayed on the evening of the day grouting is carried out and this should be repeated on at least two consecutive evenings.

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 perimiters and other locations as recommended in relevant British codes of practice.

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

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 form 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 CT300 Ceramic Tile Adhesive is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Nicobond CT300 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.nichollsandclarke.com or directly from N & C Building Products Ltd at the address below.

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