

Product Data Sheet

# Ecoflex Carbon Neutral Adhesive

**Description**

Ecoflex Carbon Neutral Adhesive is a fast setting, high performance single part highly flexible and waterproof tile adhesive used for bonding all types of tiles to a wide variety of substrates. Grouting can commence after 2-3 hours at 20°C. Nicobond Ecoflex Carbon Neutral Adhesive supports a carbon offsetting program benefitting the community and delivering reliable emission reductions.

**Uses**

Ideal for use in situations of slight vibration or where a resilient bond is required to : • Sand/cement screeds and rendering • Brick and blockwork • Tile backing boards e.g. Nicobond LUX Elements Aquapanel C.P. Board • Concrete • Plasterboard • Plywood • Glazed surfaces • Flooring grade asphalt • Hard vinyl tiles.

**Features**

- Fixes Porcelain and fully vitrified tiles.
- Highly flexible cement based tile adhesive
- Major savings against a traditional adhesive that use admixes
- Excellent initial grab - non-slip
- Internal and external applications
- Suitable for tiling swimming pools
- Rapid bond strength development
- Grout after 3 – 4 hours
- 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	Natural Grey
Mixing Ratio (clean cold water only)	Approx 3-3½ volumes of powder into 1 volume clean water. Rapid flex Grey approx 4 litres of water to 20kg of powder.) (Rapid-flex White approx 4.5 litres of 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	slump resistance mortar
Bed thickness	Up to 6 mm
Maximum bed thickness	Up to 12mm isolated areas
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 - 45 minutes at 20°C
Open Time	10- 15 minutes at 20°C
Adjustability Time	15 – 20 minutes at 20°C
Setting time	approx 3–4 hours at 20°C
Grouting After Fixing	Approx 2 - 4 hours at 20°C
Ready For Light foot Traffic	Approx 3 – 4 hours at 20°C
Installation Temperature	Minimum 5°C
Operating Temperature	- 20°C to 100°C
Packaging	20kg



The adhesive shall be Nicobond Ecoflex Carbon Neutral 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.



## Products for the Professional

### Nicobond Ecoflex Carbon Neutral Adhesive

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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

##### 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.

##### Floor Tiling Thick Bed Method

The mixed adhesive should be applied with the straight edge of the Nicobond Notched Trowel up to the maximum depth specified for the product. Lightly comb over the surface of the adhesive using the notched edge of the Trowel. Where tiles have deep keys or studs, spread adhesive onto the back of the tile to fill the keys or spaces between studs.

##### 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 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 Ecoflex Carbon Neutral Adhesive is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Nicobond Rapidflex 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.ncdirect.co.uk](http://www.ncdirect.co.uk) or directly from N & C Building Products Ltd at the address below.

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