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Technical data sheet

November 2015

# Pressure Sensitive Adhesive

A solvent free acrylic polymer emulsion adhesive that is non staining and designed to give an initial strong grab and a high bond strength.



## Features

- High bond strength
- Non staining
- Acrylic polymer emulsion
- Resistant to plasticiser migration
- Protected against biodegradation
- Easy to spread
- Can be used over under-floor heating
- 15kg/5kg



Floors



Internal



Under-Floor Heating



Open Time  
20-40 minutes

The adhesive shall be Pressure Sensitive 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.





### Description

Pressure Sensitive Adhesive is a solvent free acrylic polymer emulsion that is non staining and protected against biodegradation.

The adhesive is suitable for adhering a wide range of coverings, including PVC, polyurethane foam, gel and felt backed carpets, luxury vinyl tiles (LVT), vinyl tiles, vinyl sheet, cushion vinyl and other vinyl backed floorcoverings.

This adhesive is versatile and can be used as a wet-bond, pressure sensitive or contact adhesive onto absorbent subfloors and as a pressure sensitive or contact adhesive onto non-absorbent subfloors.

Pressure Sensitive Adhesive can be used in domestic, commercial and industrial areas. It is ideal for use in schools, offices, restaurants, care homes, shops, showrooms, warehouses etc.

### Application

For the best results a minimum temperature of 18° C (65° F) should be maintained for the installation with a floor temperature of at least 10° C (50° F).

An appropriate V notched trowel should be used to apply an even coating of the adhesive to an area of such a size that the floorcovering can be laid whilst the adhesive is receptive and gives good transfer.

For vinyls and other smooth backed floorcoverings a 1.5mm x 5.00mm or MT-A1 or MT-A2 trowel is recommended. For floorcoverings with a more profiled back a larger trowel should be selected.

**Wet-bond:** Allow an open time of 5-20 minutes, lay the floorcovering and roll it with a 68kg roller in two directions within 30 minutes and again within 2 hours.

**Pressure Sensitive:** Allow an open time to when the adhesive has developed a slight tack to the touch. This is usually between 20 – 40 minutes. The open time can be reduced by, either smoothing out the wet adhesive with a pre-wetted roller or employing a "double drop" technique. After the floorcovering is placed, roll it with a 68kg roller in two directions and again within 2 hours.

**Note:** The use of a heavy roller onto the completed installation will always increase the bond strength with this adhesive.

### Sub-floors

Suitable sub-floors include concrete, sand/cement screed, smoothing underlayments, plywood, flooring grade chipboard, hardboard, wood and existing well bonded resilient flooring. Direct to earth bases must incorporate an effective damp proof membrane.

There are certain grades of floor boarding that have been treated with 'paraffin wax' to provide a waterproof quality or other types of boards that have been treated with preservatives and fire retardants, these type of boards are not suitable for this type of adhesive.

Please always check the type of floor board in use prior to commencement of the installation.

If the existing well-bonded resilient flooring cannot be thoroughly cleaned of polish etc, the resilient flooring must be removed and the subfloor made good before proceeding.

Sub-floors must be sound, smooth, clean, dry and free from any contamination which will affect adhesion.

### Sub-floors

#### Concrete & Sand/Cement Screeds

Concrete and sand/cement screeds must be dry and laitance or surface treatments removed.

Sand/Cement screeds must have a Relative Humidity (RH) reading of less than 75% or less before work can begin.

Allow approximately 1 day per mm for drying of new screeds. It is also advised to prime sand/cement screeds to maintain a good flow and prevent air bubbles rising to the surface.

Porous surfaces may need more than one coat. Prime with Nicobond Primer diluted at 4 parts water to 1 part Nicobond Primer. Direct to earth bases must incorporate an effective damp proof membrane.

#### Power Floated Concrete

The surface should have been allowed to dry for at least six weeks. Power Floated Concrete can have a loose top layer and in some cases laitance once it has dried.

Mechanically remove any laitance or surface treatments. All dust and debris must be removed using a vacuum.

#### Under – Floor Heating

Under-floor heating must be switched off for 48 hours before and after application. When switching on start with a low temperature, gradually increasing it to its operating temperature at a rate of 5° C per day.

#### Flooring Grade Asphalt

The surface must be clean, secure and free from dirt and dust. A minimum application of 3mm skim will be required using a Nicobond ScreedPro smoothing underlayment.

#### Ceramic, Quarry & Porcelain Tiles

The surface must be clean, dry, secure and free from dirt and dust. Use ScreedPro Feather Finish to fill in the grout joints to make the surface level prior to priming with Nicobond Primer.

#### Floorboards and T/G Boarding

Tongue and groove boards must be screwed down to the joists every 150mm to provide a rigid and flat surface.

Ensure the substrate is strong enough to support adhesive and the final floorcovering.

#### Plywood/Chipboard Overlays

The plywood must be 5.5mm or thicker screwed/ring nailed at 150mm centres in the middle (grid style) and 100mm centres around the edges.

Use ScreedPro Feather Finish to fill in the joints etc prior to applying Pressure Sensitive Adhesive.



## Sub-floors

### Metal Surfaces

The surface must be clean, dry, secure and free from dirt and dust. Use ScreedPro Feather Finish to fill in any joints to make the surface level prior to priming and applying Pressure Sensitive Adhesive.

### Priming

Priming may be required. See table below.

Surface	Primer
Porous Substrates	Nicobond Primer (diluted 1:4 with water)
Non Porous Substrates	Nicobond Primer (diluted 1:1 with water)
Applications in excess of 50mm	Nicobond Primer (diluted 1:3 with water)
Calcium Sulphate Screeds	Consult Technical Support

## Technical Information

Specification	Pressure Sensitive Adhesive
Colour	Off White
Type	Acrylic Emulsion
Coverage	4 - 6m <sup>2</sup> per kg depending on tool used and absorbency of subfloor.
Application	V Notched Trowel
Open Time (Pressure Sensitive)	Approx 20-40 minutes at 20° C
Viscosity	Approx 30,000 – 40,000 cps at 20° C
Floor Temperature	Minimum 10° C
Packaging	15kg, 5kg

### British Standard – Guidelines

All aspects of the installation must be in accordance with the requirements of the following standards:

BS5325 The installation of Textile Floorcoverings  
 BS8203 The installation of Resilient Floorcoverings  
 The CFA Guide to Contract Flooring

## Technical Terms & Definitions

### Porous (Permeable & Absorbent)

Porous surfaces are any materials having minute or narrow spaces through which liquid or air may pass. Examples of porous materials are quarry tiles (unsealed), unvarnished (unfinished) wood, concrete (not power floated), sand /cement screeds.

### Non Porous (Impermeable & Non Absorbent)

Non porous surfaces tend to be thick, dense, and solid so that nothing can penetrate beyond its outer-most surface. Examples of non porous surfaces are metal objects, varnished wood, laminate counters, granite, powered floated concrete, glazed ceramic tiles, porcelain tiles, flooring grade asphalt, quarry tiles (sealed) and vinyl.

### Tools

Use a 1.5mm x 5.00mm V Notched Trowel for vinyls and smooth floor coverings and a 2.00mm x 6.00mm for more profiled backings.

### Cleaning

Wash tools thoroughly with water immediately after use whilst the adhesive is wet. A appropriate solvent can be used if the adhesive has dried. Do not use on skin.

### Shelf Life

12 months unopened from the date of packing.

### Storage

This product must be stored clear of the ground, under dry conditions, out of direct sunlight, between 5°C and 30°C. Protect from frost. If allowed to freeze N&C Building Products cannot guarantee the performance of the product.

### Health & Safety Advice

Pressure Sensitive Adhesive is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations.

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

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