



# NAIL-FREE ADHESIVE



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**BRILLIANT  
WHITE**

**MULTI-PURPOSE GAP  
FILLING ADHESIVE**

**WATER-BASED  
NON-FLAMMABLE**

## Description:

NAIL-FREE is a one component, cartridge applied, water-based adhesive incorporating an Acrylic emulsion copolymer, which dries to develop a high-strength, highly flexible bond with virtually all types of common building surfaces including timber, plywood, polystyrene, expanded PU foam, brickwork, stone, cardboard, MDF, plaster and plasterboard and is especially useful in applications where restricted space makes the use of a mechanical fixing prohibitive. Typical applications where NAIL-FREE finds its' niche are as follows:

**POLYSTYRENE COVING  
DADO RAILS**

**SKIRTINGS  
BEADING**

**CARPET GRIPPERS  
DECORATIVE FITTINGS**

**PLASTER MOULDINGS  
FOAM INSULATION**

NAIL-FREE can be used to bond impermeable surfaces to a porous surface (e.g. plastic or UPVC to plasterboard) but is not recommended applications where high early strength (within 24 hours) is essential, or where two impermeable surfaces are to be bonded, e.g. metal to plastic.

## Surface Preparation:

All surfaces must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. Gypsum finishing plaster or cement render should be at least 4 to 6 weeks old, thoroughly dry and wiped clean of dust, efflorescence and loose flaking material. Highly polished (shiny) plaster surfaces should be roughened with a stiff brush, removing all loose fines. All very porous masonry surfaces should be primed with PVA or TILERS PRIMER SBR diluted as 1 part to 3 parts with water and allowed to dry. All wood-based surfaces, (plywood, chipboard and composite panel-boards) should be dry, sealed on all exposed faces and edges, cut and conditioned to the environment where they are to be fixed. Remove areas of unsound (emulsion based) paint from walls and when bonding to existing tiles ensure they are securely fixed in all areas.

## Application Method:

When surfaces are ready for fixing, cut the cartridge tip, fit the nozzle and cut the end at a 45° angle to permit easy extrusion from the cartridge gun of a bead of adhesive, about 6mm in diameter and gun out along the bonding surface, spacing each bead on lightweight wide profiles by no more than 300mm and in a continuous ring within 10mm of the edges of the panel. Lengthy fitting such as beading or Dado rails should receive the bead of adhesive as a zig-zag along its' full length before offering the item to the wall. Unite the bonding surfaces by pressing firmly and sliding into position and repeatedly pushing the faces together to extrude any excess adhesive and entrapped air. Final movement or positioning of the bonded items should be carried out within 10 minutes of fixing and for heavy or dense materials temporary support battens or panel pins can tacked into a fixed position until the bond has dried. Accidental spillage or excess loadings of NAIL-FREE can be wiped away from exposed surfaces using a cloth dampened with water to leave a smooth clean edge, however this should be carried out within 30 minutes otherwise NAIL-FREE will begin to skin over and become more difficult to remove.

## Coverage:

NAIL-FREE is supplied in a standard size polyamide cartridge and will be sufficient to extrude just over 10 linear metres of a 6mm diameter bead onto a smooth and flat even surface.

## Health & Safety:

NAIL-FREE is an emulsion based acrylic adhesive with excellent grab and fast-drying properties. It should be kept out of reach of children and any splashes on skin should be washed off immediately. If in contact with eyes rinse immediately with clean water & seek medical advice.

## Technical Summary:

APPEARANCE	APPLICATION TEMP	ADJUSTABILITY time	FULL drying time
Brilliant white paste	5°C to 30°C	15 minutes @ 20°C	24 hours (porous walls)

## Storage & Packaging:

NAIL FREE is supplied in a standard 300ml polyamide cartridge and has a storage life of not less than 12 months if kept in dry, un-opened conditions in a cool well-ventilated environment.

Consult the NAIL-FREE material safety data sheet for advice on handling and safety procedures.

Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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