



Technical Data Sheet

Panelam 3000

Water Based Building Panel Adhesive

Description

Bostik Panelam 3000 is a water based adhesive, which when fully reacted gives high water resistant and heat resistant bonds. Panelam 3000 is specifically designed for bonding expanded polystyrene foam to cement sheeting for SIP (Structural Insulation Panels).

Panelam 3000 is a wet bonding adhesive for porous to non-porous or porous to porous substrates. It avoids the clean-up and OHS issues related to use of reactive polyurethane adhesives that have been promoted for similar applications.

The product has been designed for use in Polystyrene / cement sheet / MgO SIP construction for modular housing and wall panels.

Panelam 3000 is a single pack product that self-crosslinks to provide very high water and heat resistance.



Features

- Water Based
- Fast setting
- High Bond Strength
- Machine coatable
- Self Cross Linking
- No mixing required - eliminating mixing equipment and labour costs.
- 100% use of product - all unused product is recoverable for later use
- Non-Flammable
- Non-Toxic / non-Hazardous

Recommended Uses

- SIP manufacture
- Modular Panels for Buildings
- Modular Garden Wall Panels
- Polystyrene to porous substrate bonding

Benefits

- Easy clean-up (water)
- Heat Resistant
- Water Resistant
- Bacteria and Fungal Resistant
- Low OHS risk

Application Instructions

Panelam 3000 may be applied by trowel or glue spreader directly to the EPS. Coverage rates will vary depending on the substrates to be bonded and porosity. Following application, pressure should be applied to the panels within 10 minutes of the first panel coated. High pressure gives a superior bond. Pressure should be maintained for a minimum of 15 minutes. This operation can be carried out in a press or by block stacking and applying a suitable weight.

Coating Method

Machine glue spreader or 1.6mm V-notch trowel

Coat Weight

5m²/litre or 200gsm minimum (NOTE: higher coat weights will extend the open time / the time before press)

Open time/ Working Time/ Time Before Press

10 minutes maximum (higher coat weights will extend open time). When creating a stack of panels prior to pressing all together, do not allow more than 10 minutes to pass from the time the first panel has had adhesive applied (i.e. open time is 10 minutes maximum). If the time before press is too long, a poor bond will result and possible failure of the panel.

Press Pressure

700kg / m² (1psi) minimum NOTE: higher is better, but no more than 1.4 tonne/m² (2psi) is required



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Cure Rate

The adhesive cures under pressure at ambient temperature. Panel handling is achieved after 15 minutes press. A 70% cure is reached in 24 hours and full properties are achieved in 7 days.

Clean Up

Wet adhesive: Wash any equipment, clothing or skin with warm soapy water before adhesive is dry.

Dry adhesive: Once dry, the adhesive may be removed using hot soapy water or solvent & scrubbing. Suitable solvents include mineral turpentine, xylene, toluene, MEK or other solvents that soften the polymer.

Properties

(All results listed below represent typical properties of the product described. For specification refer to Bostik.)

Viscosity:	3000 cP
Specific gravity:	1.05
Solids Content:	46 %
pH:	8.5
Flammability:	Non-flammable (water based)
Thinning:	Not recommended. Supplied ready for use

Storage & Shelf Life

Panelam 3000 should be stored in cool conditions.

Shelf Life is 12 months unopened in sealed containers in warehouse conditions.

Health & Safety

This product is non-flammable and non-toxic.

Refer to Material Safety Data Sheet before using (available upon request and on Bostik website)

Product Details

Item Number	Size	Pack Quantity
363693	1075Kg	kg

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