

TECH BOARDS LIMITED

PRODUCT INFORMATION SHEET

1 DECEMBER 2017

INFILL GLUE™ – POWERFUL NEW CONTACT ADHESIVE AND COATING

IMPORTANT NOTICE *Tech Boards Ltd only warrants the quality of the product in the drum or can. As the user, it is your responsibility to ensure that the adhesive meets your requirements and is fit for the intended purpose before application.*

PRODUCT DESCRIPTION

INFILL GLUE™ — is a fast-acting, industrial-strength, contact adhesive. This easy-to-use adhesive comes as a 2-pot mix. It's ultraviolet stable. It's tough. And it adheres to a vast range of porous and non-porous surfaces, substrates and materials. It is designed for the construction, building, marine and related industries.

INFILL GLUE™ -- is especially suitable for use when strong bonding is required between porous and non-porous surfaces, such as boards to foam. INFILL GLUE™ is also suitable for coating large surfaces to make them waterproof and weatherproof.

FEATURES

INFILL GLUE™ adhesive is ideal for situations where:

- instant tack is required
- strong bonds are required between porous and non-porous substrates
- a firm glue line is needed
- resistance to moisture and oxidation is needed

BENEFITS

INFILL GLUE™ adhesive:






- easy to use
- customizable set and drying times by varying the quantity of the activator (part B)
- cures at ambient temperature
- can be trowelled on to surfaces, such as walls, floors and panels
- has excellent water and weather resistance
- has excellent structural performance and service temperature up to 150°C (the adhesive is configurable, meaning the mix can be altered to service higher working temperatures if required)
- has good ageing performance for continuous operation at 85°C

TYPICAL APPLICATIONS

It bonds polystyrene-based foams to each other, as well as foam to metal sandwich constructions. It binds foam to metal, wood, fabric, paper, porcelain, and a vast range of other substrates. INFILL GLUE™ is ideal as a bonding agent for:

- Timber / joinery / wall panelling / flooring / vinyl / carpet / tiles /concrete /metal /
- Residential and commercial fit-out
- Interior marine fit-out
- Insulation panels to magnesium oxide boards
- Insulation panels to cladding / panels to construction metal and sheeting
- It is ideal as a waterproofing/bonding agent for porous and non-porous substrates

SPECIFICATIONS AND MIXING RATIOS

	Part A	Part B	Applicators
EASY TO MIX RATIOS			 Spray
	Ratio 50 to	50 Activator	 Roller  Brush
PRODUCT PROPERTIES	Colour	Light cream when mixed at standard ratio Dark cream to light brown with greater ratio of activator	
	Solvent resistance	Good when cured	
	Water resistance	Excellent	
	Hardness	Quick fill film cure	
	Levelling and flow	Excellent	
CONFIGURABLE SET TIMES	At a ratio of 1 to 1 of INFILL GLUE™ adhesive offers instant tack and a strong bond with a firming glue line. It has a standard set time of 30 minutes.		
	A greater proportion of the activator (part B) can be added to speed up the tack and set. Use less activator for a slower time.		
	Low temperatures and greater use of part (A) will slow the drying time.		
	The adhesive is suitable for brushing, rolling or spraying on to surfaces.		
	For large-scale industrial use, this product is best sprayed on. It presents limited overspray and requires minimal soak-in time to achieve complete surface adhesion. Viscosity as set out in data sheet.		
POT LIFE	The Pot life of all mixed adhesives will vary with ambient temperature, weather conditions and the quantity mixed. Pot life is longer at lower temperatures and shorter at higher temperatures. Only mix the quantity required for the job.		

APPLICATIONS

The adhesive is a bonding and coating agent. Below is a small sample of its many potential bonding and coating applications.

INFILL GLUE™ is suitable for:

- Large-scale building and construction – such as foam (polystyrene) to wood or metal panel applications, including structural sandwich constructions
- Timber joinery
- Flooring tiles, vinyl's and other similar applications

BONDING AGENT

Insulation panels	Carpet	Concrete	Wood
Glass	Rubber	Grouting	Metal
Synthetic beams	Fibreglass	Tiles	Ply

COATING AGENT

Foam	Insulation panels	Slate	Concrete
Roofing	Foils	Laminated plastics	MDF

INSTRUCTIONS FOR USE

The correct application of INFILL GLUE™ results in bonding that permanently penetrates and grips the substrate.

Pretreatment varies significantly depending on the substrate, such as foil or metal, the degree of permeability required, and the set time for handling.

Before using, you must ensure that all substrates are free of contamination and are in an ideal a state for bonding.

INDUSTRIAL APPLICATION

The tack time and final set time can be altered to meet the different applications and the requirement of users. The regular ratio is 1 to 1 (A base to B).

In industrial applications, such as assembling foam to MgO sandwich panels, the ratio of A to B can be adjusted. (For example, the initial tack time might set between 3-10 minutes, and the final chemical bonding would be set to complete within 30 minutes). These adjustments should always be made by suitably qualified personnel.

1. Allow sufficient time for the adhesive and the substrates to warm to room temperature (15°C - 27°C) before applying
2. Preferably spray (or in small applications brush or roll) the adhesive uniformly on the prepared surfaces that are to be bonded
3. For large-scale industrial sprayers of foam to panels, aim to achieve a uniform coverage of 100-150 microns on each of the sandwich surfaces
4. Allow the adhesive to dry to the desired tackiness state
5. Bring the substrates together and apply pressure to joint assembly while the adhesive cures (typically allow 10 minutes)
6. After the adhesive has cured it is advisable to maintain pressure for 30 minutes until the bonded assembly has gripped sufficiently to be handled

Enough time should be allowed to ensure that the adhesive reaches the optimum strength. After curing it is recommended that components are cooled below 20°C before releasing the pressure. Please refer to the wholesaler for specific information relating to bonding different substrates to achieve optimum performance.

MANUAL APPLICATION

The manual procedures for applying the adhesive are similar to those described above. However for manual applications, you must thoroughly stir each container (of A and B of the adhesive) independently for at least 30 seconds. Then mix A and B at the desired ratio (ideal ratio is 1 to 1) and vigorously stir the mixed contents together for 30 seconds.

From that point the chemical reaction starts. You have approximately 3 minutes during which the adhesive remains tacky enough to complete the jointing process. After 3 minutes, bonding of the substrate occurs.

STORAGE LIFE

INFILL GLUE™ has been formulated for maximum storage life consistent with its high performance. When stored at room temperature (less than 27°C) drums should be kept in a horizontal position.

INFILL GLUE™ has a storage life of 18 months from manufacture at regular room temperatures plus an additional open life of 3 months when stored in approved sealed containers below 27°C.

PROPERTIES

All the performance values given in this document are based on applications that use the core ingredients as recognised in the construction trade. They are also based on experimental results obtained during testing under laboratory conditions.

They are typical values expected for INFILL GLUE™ prepared and cured as recommended and under the conditions indicated. They do not and should not constitute specifications for all types of conditions.

PRECAUTIONS

All Tech Boards adhesives are designed for large-scale industrial use. INFILL GLUE™ is suitable for use within an automated sealed system. Such systems are designed for minimal human handling and must comply with the appropriate work and safety regulations. Once the adhesive is applied and set, it is free from handling hazards for the following reasons, it:

- becomes tack-free (dry) at normal room temperature
- sets between substrates
- ceases to be wet once chemical activity ceases
- does not emit vapours once chemical activity ceases
- becomes volatile-free at normal room temperature
- becomes splash-free, leak-free, spillage-free

Of course, the usual precautions for handling synthetic resins should be observed.

HEALTH AND SAFETY

For relevant information refer to the following documents:

1. Most recent Safety Data Sheet for INFILL GLUE™ (Part A) Base
2. Most recent Safety Data Sheet for INFILL GLUE™ (Part B) Activator

**ENGINEERING
CONTROLS**

Avoid inhalation of vapour by maintaining adequate ventilation. Avoid pockets of vapour. This is normally achieved by applying in a well-exhausted spray or sanding booth. If inhalation risk exists (e.g. spraying) the operator must wear an air supplied positive pressure demand full-face mask. The system must comply with relevant regulations.

**PERSONAL
PROTECTION**

Contact with any industrial chemical should be avoided. Avoid contact with skin and avoid breathing the vapour or spray mist.

Wear suitable protective clothing including rubber or PVC gloves and safety goggles. When using, do not eat or smoke.

DISCLAIMER

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End of Product information sheet