

## TIMBATECH PU120

### MEDIUM TO SLOW SETTING POLYURETHANE ADHESIVE

#### DESCRIPTION

TimbaTech PU120 is a one component medium setting Polyurethane Adhesive that reacts with humidity to cure. Fully cured TimbaTech PU120 has a strong highly water resistant bond (D4 classification) and is also suitable for the marine environment where the glue line is protected.

#### TYPICAL USES

TimbaTech PU120 has excellent adhesion to all timber substrates.

TimbaTech PU120 has proved a good adhesive for bonding difficult species of timber such as spotted gum. Attention to detail in preparation and process is essential when bonding difficult dense timbers.

Adhering timber substrates to metal.

Note the metal should be thoroughly cleaned with a suitable solvent.

#### ADVANTAGES

- Superior Bond Strength
- No Mixing
- Medium Setting
- Extremely Versatile
- High Heat Tolerance
- Resists Low Temperatures
- Highly Water Resistant

#### APPLICATIONS

- Surface must be clean, dry, even and free from grease.
- Apply in beads or roller.
- Bring both substrates immediately together and clamp or press, to apply pressure for about 120 minutes. It's not necessary to have a high pressure but a constant one on the entire surface is essential. The surfaces should remain in contact during the curing time.
- TimbaTech PU120 expands slightly thus filling any irregularities in the substrate.

#### Note

- TimbaTech PU120 is designed as an adhesive.
- Thick glue lines and filling of irregularities and voids greatly compromise the integrity of the bond.

#### PROPERTIES

Product Type	:	Moisture cure, Polyurethane Adhesives
Specific Gravity	:	1.03 +/- .03
Color	:	Uncured = Dark Brown Cured = Brown
Skimming @ 23 °c & 50% RH	:	10 minutes Approx
Initial Set	:	120 minutes

Full Strength	:	24 hours
Pressing Time	:	120 mins @ 0.6 N/mm <sup>2</sup>
Use Temperature	:	+5°C to 35°C
Temp resistance	:	-30°C to 100°C
Tear resistance	:	up to 130 kg /cm <sup>2</sup>
Insensitive to frost	:	
Sensitive to humidity	:	(cures product)
Flammability	:	Non flammable
Consumption	:	120 to 250 gm/m <sup>2</sup> , 4 to 8 M <sup>2</sup> /L depending on porosity and profile of substrate

## REMARKS

Surfaces must be clean, totally free from dirt, grease laitance; loose particles or other contaminates and should have a minimum humidity of 30%.

## LIMITATIONS

When used as gap filler the strength of the adhesive is reduced. To achieve maximum strength pressure is required during the period of curing .This can be achieved by clamping.

## SHELF LIFE/RECOMMENDED USE BY PERIOD

Maximum 12 months from date of manufacture (see top of tube) unopened in sealed containers in warehouse conditions at temperatures between 15° c and 25° c.

## ADEQUATE TESTS

The information contained in this bulletin we believe is correct to the best of our knowledge and tests. The recommendations and suggestions contain herein are made without guarantee or representation as to the results. We strongly recommend that adequate test be made in your laboratory or plant to determine that this product meets all your requirements.

## HELPFUL HINTS FOR [TimbaTech PU120](#)

- The adhesive is single pack moisture cured polyurethane
- These types of adhesives react to the moisture & humidity in the atmosphere; they also react with the moisture in the product being bonded together.
- Because they are moisture cured adhesive, they have extremely high water resistance but are not water proof.
- [TimbaTech PU120](#) can be the perfect solution for the bonding difficult & oily timbers. With adequate preparation.
- [TimbaTech PU120](#) can be use in the marine industry, non-submerged areas (D4 classification). Which means highly water resistant not water proof.
- [TimbaTech PU120](#) also works extremely well on porous to non-porous surfaces, such as metal plate to HMR.
- [TimbaTech PU120](#) comes packaged in a 1kg squeeze bottles for ease of use and versatility. Also

available 5 litre and 20 litre.

- Single pack means - No Mixing = less time  
No Waste  
No Errors in Mixing
- Initial set within 120 minutes full cure within 24 hours. This can be affected by changes in air temperature and humidity as well as the moisture content of the items being bonded.
- Do not clean up, squeeze out while wet. Allow to cure and remove with a blade or similar.
- Avoid skin contact. Wear gloves when using these products.( Preferably disposable)
- These product stay slightly flexible after full cure to allow different materials being bonded together to expand & contract at different rates without effecting bond strength!
- 12 month self life from date of manufacture in unopened containers, stored out of direct sunlight.
- **TimbaTech PU120** is an adhesive not a sealant. Do not use where flexibility is a major requirement.

#### **HEALTH AND SAFETY**

Please refer to Material Safety Data Sheet available on our Website [www.timbatechsolutions.com](http://www.timbatechsolutions.com)

#### **OTHER TECHNICAL INFORMATION SPECIFIC TO THIS ADHESIVE**

Adequate tests should be carried out on any new or unfamiliar applications to ensure this product is suitable for the specific task.

Samples are available free of charge to assist this procedure.

Material Safety Data Sheet available on request.

*Disclaimer – The statements made herein are based on our experience gained to date. They are to be considered as information without obligation. Please test and establish for yourself our product's suitability for your particular purposes. No liability exceeding the value of our product can be derived from the foregoing statements. This also applies to the technical advisory service, which is rendered free of charge and without obligation*