



PRODUCT DATA SHEET

UrePac™ Bond 15 300

Product Description

UrePac™ Bond 15 300 is a single component adhesive based on polyether polyol and MDI isocyanate. The adhesive is a polyurethane pre-polymer with a surplus of isocyanate which reacts with the moisture in the atmosphere to cure the product. The product was developed as a general purpose binder adhesive with a long pot life for maximum working time.

Product Specification:

220kg per 205lt Open top drum.

1100kg per 1000lt IBC

Specific Gravity (22°C):	1.15 +- 0.02 g/ml
Viscosity (Brookfield) (22°C):	6500 +- 1000 m.Pas
Flash Point:	>200°C
Appearance:	Clear Dark Amber liquid
Free NCO:	15.0 +- 1.0%

Processing Conditions:

The curing of this adhesive is the process of a chemical reaction and therefore the temperature of the product will significantly affect the pot life. Optimally, the adhesive should be conditioned to 20-25°C to ensure that the product will perform as specified. If the product is heated above this temperature, the reaction between both components will take place much quicker and therefore the adhesive will have a reduced pot life. The bonding surfaces should be clean and free from oil, grease and excessive moisture. If the surfaces are completely free from moisture or will not be exposed to atmospheric moisture then a light misting with water may be necessary to fully cure the adhesive.

This product will foam slightly during cure, to expand into the surfaces, achieving a better bond. Excess foaming of the product will occur with thicker application, excessive moisture, high humidity or increased ambient/substrate temperatures.

Cured Adhesive Properties

The mechanical properties were measured on a test sample 0.5-1.0 mm thick after 7 days curing under normal conditions.

Gel Time (22°C/ 50%RH): 300+-30 minutes

Demould time (22°C): 24 hours

Cured Density: 1.13 +-0.02 g/ml

Shore Hardness: 80 +-5 Shore A

Tensile Strength: 5.0 N/mm²

Elongation at break: 100 %

Tear Strength: 15 N/mm

Water Absorption: 0.7% max

Storage and Handling

UrePac™ Bond 15 60 will react with atmospheric moisture forming a cured skin in open containers, therefore the product should be kept in airtight drums at all times. It is advisable to seal the containers with dry nitrogen to ensure the maximum shelf life can be achieved and prevent skin formation on standing. When kept at the proper storage temperature of 22 ± 5°C in airtight, dry drums, the material has a shelf life of six (6) months.

Please refer to the material safety data sheet for further advice on the safe handling of these products.

Transport Classification: Non Dangerous Good