

U-BOND 305

FAST CURING AND QUICK BUILD UP STRENGTH POLYURETHANE ASSEMBLY ADHESIVE EN 204 D4 CERTIFIED

Product Description:

U-BOND 305 is a one-part, **fast-hardening**, solvent-free moisture curing polyurethane adhesive which, once hardened, transforms into a very strong-grip adhesive with excellent resistance to water, temperatures, weathering and ageing conditions.

Main Features & Advantages:

- Excellent adhesion on numerous substrates
- Easy-to-use
- Solvent free – Odourless
- Weathering resistance according to DIN 204 D4
- Resistant to ageing
- Resistant to chemicals
- Filling capacity: good

Applications:

Specifically designed for high mechanical resistance in assembly and outdoor applications for woodworking, building & construction and joinery. Typical applications:

- Powerful bonding of wood and derived wood products; chipboard, plywood, staircase renovation.
- Chemical anchorage in building construction, for bonding of stones, plasterboard, cement cover and insulation panels
- Powerful bonding in metal construction; aluminium, stainless steel, galvanised steel, copper
- Bonding of corner connections in metal door, windows and facades as well as conservatories.
- Bonding of stone, natural stone, brick and ceramics
- Bonding of synthetic materials; PVC, fibre-reinforced plastics etc.
- Bonding of insulating materials including expanded polystyrene and polyurethane sheets

Product Properties:

- Chemical basis	Polyurethane
- Cure mechanism	Moisture curing
- Specific weight	1.46 gr/cc $\pm$ 0.02 gr/cc
- Viscosity	thixotropic paste
- Tack free time at 23°C and 50% r.h.	8-10 minutes
- Clamping time*	30 minutes
- Shear strength by tensile loading (EN 204 – D1)	$\geq 10,5 \text{ N/mm}^2$ (EN 204 D4)
- Shear strength by tensile loading (EN 204 – D4)	$\geq 4,5 \text{ N/mm}^2$ (EN 204 D4)
- Chemical resistance	Excellent
- Humidity and water resistance	Excellent (D4 – DIN EN 204)
- Solid contents	100% (solvent free)
- Application temperature	+5°C to +35°C
- Temperature resistance	- 40°C / +100°C after curing



Instructions:

All surfaces to be bonded must be perfectly clean, dry and free from dust, grease, oils and debris.
Apply U-BOND 305 on one side with a caulking gun or spread on substrate with a spatula.
The high viscosity holds elements to be bonded in position, the use of clamps however is recommended.
Slight moistening of substrates improves curing rate and gap filling characteristics as adhesive foams up to penetrate the bond cavity.

Colour Range - Packing :

Standard Colour:	Beige
PE cartridges 310 ml.:	12 per box
Drums 290 kg net	

Storage:

U-BOND 305 can be stored for 12 months in its original packing at 5° - 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time.
Keep away from heat sources.

General Information:

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. N.P.T. srl reserves the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.

ALWAYS CONSULT THE SAFETY DATA SHEETS BEFORE USING THE PRODUCT.

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