



U-Bond 309 TFC

**One-part polyurethane fast curing traslucent paste adhesive for wood
and construction material quick assembly**
Certified EN 204 D4
LEED Compliant

1

Description

U-Bond 309 TFC is a one-part, solvent-free moisture curing fast setting translucent polyurethane paste adhesive suitable for bonding wood and construction materials in high mechanical resistance assembly joinery and outdoor applications due to the excellent resistance to water, temperatures, weathering and ageing conditions according to EN 204 D4.

Certifications

EN 204 D4

LEED iEQc 4.1; SCAQMD Rule 1168; BAAQMD Reg 8 Rule 51

CARB VOC levels regulation

Areas of application

- Fast setting beading and cord applications
- High mechanical resistance in assembly
- Outdoor applications for woodworking, building & construction and joinery
- 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

Advantages

- Translucent for invisible bonding line
- Fast curing with quick build-up strength
- Easy-to-use. Non-sag grade.
- Practical for hard-to-reach assembly position with nozzle dosing
- Very low foaming with good filling capacity
- Excellent adhesion on numerous substrates like insulating material, wood, plastic and metal
- Solvent free – Odourless
- Weathering resistance according to DIN 204 D4
- Resistant to ageing
- Resistant to chemical





Technical data

Appearance	Non-sag thixotropic paste
Color	Translucent
Chemical nature	Polyurethane
Curing mechanism	Moisture curing
Viscosity [mPa·s] (NPT Method 20) (23°C, conic plate)	ca. 30000
Density [g/cm ³] (NPT Method 06) (23°C and 50% rh)	ca. 1,13
Film formation time [min] (on dry substrate, at 23°C and 50% rh)	ca. 8
Film formation time [min] (on wet substrate, at 23°C and 50% rh)	ca. 5
Final setting time [h] (2,5mm of adhesive, bead shape at 23°C and 50% rh)	ca. 24
Shear strength [N/mm ²] (EN 205; beech tree /beech tree)	≥10 after 7 days in normal climate
Application temperature [°C]	from +5 to +40
Temperature resistance [°C]	-40/+100, after curing

2

Application

All surfaces to be bonded must be perfectly clean, dry and free from dust, grease, oils and debris. Apply U-Bond 309 TFC on one side with a caulking gun or spread on substrate with a spatula.

Fix the substrates, which are to be bonded, until the adhesive is completely cured, the use of clamps however is recommended. The adhesive hardens up with environmental moisture and the moisture contained in the material when porous/absorbent; in case of non-absorbent materials or materials with <8% humidity slight moistening the substrates improves curing rate and gap filling characteristics as adhesive foams up to penetrate the bond cavity.

Cleaning of equipment

When the adhesive has still not hardened, it can be removed from the trowel using some paper or a cloth. Once it has hardened, then removal must be effected mechanically.





Personal protective measures

Avoid skin contact using latex, rubber or polyethylene gloves.

Packaging

Cartridge PE 290 mL:	24 cartridges per box
Drum 200L:	On request

Storage

U-Bond 309 TFC can be stored for 12 months in its original packing (unopened container) at 10°- 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

General information

The information contained in this technical data sheet is to the best of our knowledge correct, being based on our knowledge and experience to date and cannot be used as a guarantee, due to the various different materials present on the market and the fact that the application conditions are not under our direct control and supervision. NPT srl, however, guarantees constant product quality. NPT srl, has the right to modify or up-date this technical data sheet according to requirements. Customers are kindly requested to verify that they are in possession of the latest version.

ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USING THE PRODUCT.