



# TriGrip 51B471B PU Adhesive Technical Data Sheet

## Product Description

TriGrip 51B471B is a single component polyurethane based elastomeric sealant designed to create a high elasticity joint that has excellent fatigue and chemical resistance. This grade meets SNJF standard on adonized aluminium and mortar in category 25E. This product also carries CE marking for the following applications:

- Sealant for facade elements for interior and exterior applications usable in cold climate according to European Standard EN 15651-1 (F EXT-INT CC).
- Sealant for pedestrian walkways for interior and exterior applications usable in cold climate according to European Standard EN 15651-4 (F EXT-INT CC).

Once cured, the TriGrip 51B471B PU Adhesive has high cohesive strength, high elongation and good environmental and shock resistance.

## Typical Applications

TriGrip 51B471B PU Adhesive is used widely as a flexible and tough adhesive in the composite and transportation market sectors. The sealant adheres without primer on a wide variety of substrates including Wood, Adonized Aluminum, Polyester, Glass, Concrete, Clay, Stone and even ceramic tiles. Some typical uses of the TriGrip 51B471B PU Adhesive are:

- Bonding stiffeners to GRP.
- Bonding automotive trim.
- Bonding composite panels in bus and coach construction

## Instructions for Use

1. Always consult MSDS before using TriGrip 51B471B PU Adhesive for the first time.
2. Carry out surface preparation where required\*.
3. Remove cap, and attach nozzle.
4. Apply adhesive onto surface and assemble.
5. Allow the adhesive sufficient time to achieve handling strength before moving component.

## Properties of Uncured Material

Resin	Polyurethane
Colour	Black
Sagging (ISO 7390)	<3mm

## Performance of Cured Material

Shore Hardness	40 Shore A (ISO 868)
Elongation at Break	>400% (ISO 8339)
Temperature Range	-40°C to 80°C
UV Resistance	Good
Chemical Resistance	Good
Density (g/cm <sup>3</sup> )	1.16 ± 0.02
Extrusion rate @ 3bar/6mm	410-420
Brookfield viscosity 5rpm (mPas)	650 000 to 750 000
Brookfield viscosity 50rpm (mPas)	170 000 to 200 000
Rheofluidification Index (I0.5/I5)	3.5 to 4.5
Open Time (Min)	30
Cure time (mm/24h)	3.8 to 4.5
Full Cure	12 days

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## Packaging

TriGrip 51B471B PU Adhesive is available in 310ml cartridges and 600ml sausages.

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## Precaution for Handling

Ensure this data sheet is read carefully.

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