



Technical Data Sheet U-Seal 208 BTR  
Ver. 5.0 February 2021

# U-Seal 208 BTR

**Ultra-high viscosity for Bus, Truck & Rail industry  
one-part polyurethane direct glazing & structural bonding adhesive**

## DESCRIPTION

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U-Seal 208 BTR is a high viscosity, high decking and green strength one-component, flexible and high-performance polyurethane adhesive for commercial vehicles and bus, truck and rail glass direct glazing and general assembly. Highly resistant to UV radiation, weathering and ageing

**Certified according to:**  
EN 45545-2 R1 & R7

## AREAS OF APPLICATION

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Specifically addressed to the glass replacing and installation of front, side and rear windshields in the sector of Bus, Truck, Railway and industrial vehicles. Thanks to its high viscosity it guarantees a very high initial tack and is suitable for the application of large surfaces glasses typical in the BTR. Suitable for elastic structural bonding (assembly of various materials which are subjected to high thermal and dynamic stress) in the transportation Industry. The product is also characterized by a very high UV resistance and color stability making the product ideal for the sealing of exposed joints, including joints between lateral glasses. Once cured it provides an excellent semi-matt appearance for aesthetical purposes.

## FEATURES

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- One-component polyurethane
- Solvent free, odorless
- Fast curing. Short cut-off string
- Suitable for cold and warm application
- Outstanding thixotropy, high decking, non-sagging
- High viscosity – high initial tack
- High Modulus - maintains torsional rigidity and increases the vehicles NVH values
- Capable of withstanding high dynamic stresses
- High UV, weathering and ageing resistance and color stability
- Allow best appearance for aesthetical purposes



## DRIVE AWAY TIME (DAT) information

- Drive Away Time: 5 to 9 hours
- On vehicles fitted with 40 to 120kg heavy glasses

U-Seal 208 BTR is compliant to all long-term durability requirements according to the full range of N.P.T. laboratory Data.

## TECHNICAL DATA

<b>Appearance</b>	Non-sag thixotropic paste
<b>Color</b>	Black
<b>Chemical nature</b>	Polyurethane
<b>Curing Mechanism</b>	Moisture-curing
<b>Curing through volume [mm]</b> (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3.0
<b>Hardness Shore A</b> (DIN 53505)	ca. 60
<b>Density [g/cm<sup>3</sup>]</b> (NPT method 06) (23°C and 50% RH)	ca. 1.24
<b>Skin time [min]</b> (NPT Method 17) (23°C and 50% RH)	ca. 45
<b>Elastic modulus at 100% [N/mm<sup>2</sup>]</b> (ISO 37 DIN 53504)	ca. 2.5
<b>Tensile strength [N/mm<sup>2</sup>]</b> (ISO 37 DIN 53504)	ca. 10
<b>Elongation at break [%]</b> (ISO 37 DIN 53504)	ca. 600
<b>Electrical volume resistivity [<math>\Omega</math>·cm]</b> (DIN IEC 93)	10 <sup>6</sup>
<b>Application temperature [°C]</b>	From +5 to +40
<b>Temperature Resistance [°C]</b>	From -40 to +100



## APPLICATION

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Fit the bag into a manual or pneumatic air operated gun (provided with telescopic piston). The surfaces to be treated should be perfectly clean, dry and free from dust and grease. It is necessary to treat the windscreen and its bonding surface according to NPT application guidelines, using a specific CLEANER or ACTIVATOR from NPT range and black primer U-PRIMER 130. It is advisable to carry out preliminary adhesion tests on the support. Specific guidance regarding the use of primers may be obtained by submitting substrate samples to our laboratories.

Do not cure in the presence of curing silicone sealants. Avoid contact with alcohol and other solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period. Tooling and finishing must be carried out within the tack-free time of the sealant.

## CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

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Clean the tools used with acetone or solvent. When the adhesive has not yet hardened, it can be removed using paper or a cloth. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

## PACKAGING

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Foilpack 600ml – 20 pieces per box

## STORAGE AND SHELF LIFE

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U-Seal 208 BTR can be stored for 12 months in its original packaging (unopened container) between 10°C and 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

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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