Technical Data Sheet U-Seal 207 Plus
Ver. 6.0 January 2022

U-Seal 207 Plus

AGR aftermarket and BTR industry
one-part polyurethane direct glazing & structural bonding adhesive

DESCRIPTION

U-Seal 207 Plus is a general purpose one-component, flexible and high performance polyurethane adhesive for auto glass replacement aftermarket and bus, truck and rail industry direct glazing and general assembly. Resistant to UV radiation, weathering and ageing.

AREAS OF APPLICATION

Purposely designed for bonding windscreens in the Auto Glass Replacent aftermarket, side and rear windows to passenger cars, trucks, tractors and special vehicles. Also used for bonding fiberglass reinforced plastic elements (roofs, side and frontal panels) on vehicles. It can be used in all applications where a strong elastic-structural bonding to elements of different compositions (automotive topcoat paint, metal sheets, fiberglass and reinforced plastic) is necessary and that undergo a strong mechanical or thermal stress.

FEATURES

- One-component polyurethane
- Solvent free, odorless
- Fast curing
- Suitable for cold and warm application
- Outstanding thixotropy, high decking, non-sagging
- High viscosity, high green strength
- High Modulus - maintains torsional rigidity and increases the vehicles NVH values
- Capable of withstanding high dynamic stresses
- Suitable for use with integral aerials

DRIVE AWAY TIME (DAT) information

- Drive Away Time: 3 hours
- On vehicles fitted with both driver and passenger airbags

U-Seal 207 Plus is compliant to Federal Motor Vehicle Safety Standard 212 and all long-term durability requirements according to the full range of N.P.T laboratory Data.

NPT srl
Headquarter
Via Guido Rossa n.2 - Loc. Crespellano
40053 Valsamoggia (BO) - Italy
T. +39 051969109
www.nptsrl.com

NPT srl
Production and R&D
Via Stazione, 12
Villanova d'Ardenghi (PV) - Italy
T +39 0382400140

Organizzazione con Sistema
di gestione qualità certificato
UNI EN ISO9001:2015 da CSI Spa

TECHNICAL DATA

Appearance	Non-sag thixotropic paste
Color	Black
Chemical nature	Polyurethane
Curing Mechanism	Moisture-curing
Curing through volume [mm] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3.1
Hardness Shore A (DIN 53505)	ca. 58
Density [g/cm³] (NPT method 06) (23°C and 50% RH)	ca. 1.23
Skin time [min] (NPT Method 17) (23°C and 50% RH)	ca. 25
Tensile strength [N/mm²] (ISO 37 DIN 53504)	ca. 10
Elongation at break [%] (ISO 37 DIN 53504)	ca. 600
Electrical volume resistivity [Ω·cm] (DIN IEC 93)	10^7
Application temperature [°C]	From +5 to +40
Temperature Resistance [°C]	From -40 to +100, with brief points up to +140

APPLICATION

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.

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CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

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

Alu cartridge 310ml – 12 pieces per box
Foilpack 400ml – 12 pieces per box
Foilpack 600ml – 20 pieces per box

STORAGE AND SHELF LIFE

U-Seal 207 Plus 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

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

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