

# ONEBOND PU POWER 180

## Description

OneBond PU Power 180 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.

## Technical Data

<b>Appearance</b>	Non-sag thixotropic paste
<b>Colour:</b>	Black
<b>Chemical nature:</b>	Polyurethane
<b>Curing Mechanism:</b>	Moisture-curing
<b>Curing through volume [mm] (24h - 23°C and 50% RH):</b>	ca. 3.0
<b>Hardness Shore A:</b>	ca. 63
<b>Density</b>	ca. 1.30
<b>Skin Time (min) (23°C and 50% RH):</b>	ca. 35
<b>Tensile strength [N/mm<sup>2</sup>]</b>	ca. 8.5
<b>G modulus at 10% [MPa]</b>	ca. 2.1
<b>Elongation at break [%]</b>	ca. 500
<b>Electrical volume resistivity [<math>\Omega \cdot \text{cm}</math>]</b>	$10^7$
<b>Application temperature (°C)</b>	From +5 to +40
<b>Temperature Resistance [°C]</b>	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 OneBond application guidelines, using a specific ACTIVATOR from OneBond range called PU PRIMER. 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

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require additional holding or support during curing period. Tooling and finishing must be carried out within the tack-free time of the sealant.

## Areas of Application

OneBond PU Power 180 is purposely designed for bonding windscreens in the Auto Glass Replacement 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
- Short cut-off string
- Suitable for cold and warm application
- Outstanding thixotropy, good decking and non-sagging
- High UV, weathering and ageing resistance
- 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)

- Drive away time: 3 hours
- On vehicles fitted with both driver and passenger airbags

OneBond PU Power 180 is compliant to Federal Motor Vehicle Safety Standard 212 and all long-term durability requirements according to the full range of OneBond laboratory Data.

## 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.

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## Packaging

Alu cartridge 310ml – 12 pieces per box

## Storage

OneBond PU Power 180 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.

## Safety Considerations

Safety Data Sheets (SDS) are available from OneBond. SDS include information regarding the physical, health, and environmental health hazards, safety precautions, for products handling, storing and disposal. SDS are available in the language of the country or area of destination and may include locally applicable health and safety regulations. SDS are updated regularly and can be downloaded from [www.onebondadhesives.com](http://www.onebondadhesives.com). OneBond encourages users to review the up-to-date SDS before handling or using any product.

## Customer Notice

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