

## TEROSON PU 8597

October 2016

### Standard Direct Glazing adhesive

#### PRODUCT DESCRIPTION

<b>Technology</b>	<b>1K- Polyurethane adhesive</b> free from PVC and solvents
<b>Product Type</b>	<b>Direct Glazing</b> for repair
<b>In driving condition with airbag</b>	<b>4 hour</b> after the window has been bonded (Crash-Norm: FMVSS 208 / 212 (50 km/h, 100% frontal) )

The direct glazing adhesive is outstanding for the following properties:

- Very good sag resistance
- High cure rate
- High elastic and shear strength, even after aging
- Good adhesion to the remaining material
- Excellent adhesion to glass, glass with the ceramic coating, encapsulation and to painted surfaces, in connection with primer/activator
- High UV resistance in connection with primer/activator

#### APPLICATION AREAS

TEROSON PU 8597 is used for the bonding of front, rear and side screens to the body of motor-, utility-, special- and rail vehicles.

#### TECHNICAL DATA

(Typical Test Results)

Colour	black
Odour	weak
Consistency	smooth, sag-resistant, paste
Density g/cm <sup>3</sup>	approx. 1.23
Solids	100 %
Curing mechanism	humidity curing
Cure rate (DIN 50014; 23°C, 50% rh)	approx. 4 mm / 24 h
Skin formation time (DIN 50014; 23 °C, 50% rh)	approx. 25 min.
Shore-A-hardness (DIN 53505)	approx. 55
Tensile strength (DIN 53504)	approx. 8.5 MPa

Stress (DIN 53504)	approx. 2.5 MPa at 100 % elongation
Shear modulus (according to DIN 54451)	approx. 1.5 MPa
Elongation at break (DIN 53504)	≥ 400 %
Shear strength after 24 h (DIN 54451)	2.2 MPa
Layer thickness 5mm based on DIN 54451	5 to 6 MPa (fully cured)
Specific forward resistance (ASTM D 257-99 / DIN IEC 60093)	approx. 1×10 <sup>5</sup> Ω cm
Volume change (DIN 52451)	< 1 %
Glazing time:*	max. 25 min
Material application temperature, °C	5 to 35
Environmental temperature at application, °C	-10 to 45
In service temperature range, °C	-40 to 90
Short exposure (up to 1 h), °C	120

\* period of time between beginning of material application until inserting of the pane

#### PRELIMINARY STATEMENT

Prior to application it is necessary to read the **Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed.

#### SURFACE PRETREATMENT

The substrates to be bonded must be dry and free from oil, dust, grease and other dirt. Clean new glass thoroughly with TEROSON VR 100. Check new glass if it is correct and free of any damage. To obtain an optimal adhesion we recommend abrading the windscreen's bond line with a smooth abrasive pad in order to have a clean surface. Clean and pretreat the bonding surfaces with TEROSON VR 20 after abrading and allow to dry for 2 minutes. The layer remaining in the window cut-out need not to be cleaned. If, however, cleaning of this remaining layer is indispensable, an evaporation time of at least 2 minutes has to be observed before the sealant can be applied, since the adhesive surfaces must have fully dried.

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**PRIMING**

With the use of an applicator apply a thin layer of All-in-one primer TEROSON PU 8519P to the cleaned substrate surface. Ensure the wet film should be 0.025 mm. Let the primed surface evaporate for approx. 2 minutes before the direct glazing sealant is applied. If a fresh bonding is made directly on the remaining material layer (left in the window cut-out of the body), this layer should not be primed within the first 2 hours after cutting back. But if the remaining layer is not used within the first 2 hours, it has to be activated with TEROSON PU 8519P. Provided that it is not contaminated with dust or grease, the remaining layer is the best adhesive surface, if TEROSON PU 8597 is used for the new bond. If windows are bonded which have been pre-coated with a primer or PUR-based adhesive/sealant by the glass supplier, the All-in-one Primer TEROSON PU 8519P is also suitable to ensure the correct adherence of TEROSON PU 8597 to the pre-coating. By means of an applicator, a thin layer of TEROSON PU 8519P is applied to the pre-coating. Following this, an evaporation time of approx. 15 minutes has to be observed. Subsequently, TEROSON PU 8597 is applied as usual, but taking into consideration the layer thickness of the pre-coating.

**PROCESSING**

The direct glazing sealant TEROSON PU 8597 is processed from the cartridge or foil pack using commercial equipment such as hand, battery driven or air-pressure guns with a piston rod.

**STORAGE**

Frost sensitive	no
Recommended storage temperature	5 to 25 °C
Shelf life	12 months foil pack 18 months aluminium cartridge

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