

approx. 70

elongation

approx. 9.5 MPa

approx. 4 MPa at 100 %

TEROSON PU 8597 HMLC

October 2016

Adhesive with high shear modulus and low conductivity

PRODUCT DESCRIPTION

Technology	1K- Polyurethane adhesive free from PVC and solvents
Product Type	Direct Glazing for repair
In driving condition with airbag	1 hour after the window has been bonded (Crash-Norm: FMVSS 208 / 212)
	4 hours after the window has been bonded (European Crash Standard (64 km/h, 40% overlap))

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
- Very low conductivity
- Good adhesion to the remaining material
- High shear modulus

 High UV resistance in connection with primer/activator

- Excellent adhesion to glass, glass with the ceramic coating,

encapsulation and to painted surfaces, in connection with

primer/activator

APPLICATION AREAS

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

black

TECHNICAL DATA

(Typical Test Results)

Colour Odour Consistency

Density g/cm³ Solids Curing mechanism Cure rate (DIN 50014; 23°C, 50% rh) weak smooth, sag-resistiant, pasty approx. 1.25 100 % humidity curing approx. 3 to 4 mm / 24 h Shore-A-hardness (DIN 53505) Tensile strenght (DIN 53504) Stress (DIN 53504)

	olongadon
Shear modulus	approx. 2.9 MPa
(according to DIN 54451)	
Elongation at break (DIN 53504)	approx. 350 %
Shear strength	
after 24 h (DIN 54451)	2.0 MPa
Layer thickness 5mm based on DIN 54451	5 to 6 MPa (fully cured)
Specific forward resistance (ASTM D 257-99 / DIN IEC	approx. 1×10 ¹⁰ Ω cm
60093)	
Volume change (DIN 52451)	< 1 %
Glazing time:*	max. 18 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 5 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 HMLC 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 HMLC 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 HMLC is applied as usual, but taking into consideration the layer thickness of the pre-coating.

PROCESSING

The direct glazing sealant TEROSON PU 8597 HMLC 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	5 to 25 °C
storage temperature	01020 0
Shelf life	12 months foil pack
	18 months aluminium cartridge

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