

TEROSON PU 9097 PL HMLC

October 2016

Primerless 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 (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
- Very low conductivity
- High shear modulus
- Excellent primerless adhesion to glass, glass with the ceramic coating, encapsulation and to painted surfaces
- Improved UV resistance

APPLICATION AREAS

TEROSON PU 9097 PL HMLC 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-resistiant,

pasty

Density g/cm³ approx. 1.3
Solids 100 %
Curing mechanism humidity curing

Cure rate (DIN 50014; approx. 3 to 4 mm / 24 h

23°C, 50% rh)

Skin formation time (DIN 50014; approx. 25 min.

23 °C, 50% rh)

Shore-A-hardness (DIN 53505) approx. 66
Tensile strenght (DIN 53504) approx. 8.0 MPa

Stress (DIN 53504) approx. 3 MPa at 100 %

elongation

Shear modulus approx. 2.5 MPa (according to DIN 54451)

Elongation at break (DIN 53504) approx. 280 %

Shear strength

after 24 h (DIN 54451) 1.8 MPa

Layer thickness 5mm based 5 to 6 MPa (fully cured)

on DIN 54451

Specific forward resistance approx. $1 \times 10^{10} \Omega$ cm

(ASTM D 257-99 / DIN IEC

Volume change (DIN 52451) < 1 %
Glazing time:* max. 25 min
Material application 10 to 35
temperature, °C
Environmental temperature 10 to 45

at application, °C

In service temperature range, °C -40 to 90
Short exposure (up to 1 h), °C 120

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.



^{*} period of time between beginning of material application until inserting of the pane



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PROCESSING

The direct glazing sealant TEROSON PU 9097 PL HMLC is processed from the cartridge using commercial equipment such as hand, battery driven or air-pressure guns.

STORAGE

Frost sensitive	no
Recommended	10 to 25 °C
storage temperature	
Shelf life	9 months in original packaging

ADDITIONAL INFORMATION

Disclaimer:

Note:

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