

## TEROSON PU 8630 HMLC

October 2016

### Adhesive with high shear modulus and low conductivity

#### PRODUCT DESCRIPTION

<b>Technology</b>	<b>2K- Polyurethane adhesive</b> free from PVC and solvents
<b>Product Type</b>	<b>Direct Glazing</b> Final strength after approx. 5 h
<b>In driving condition with airbag</b>	<b>1 hour</b> after the window has been bonded (Crash-Norm: FMVSS 208 / 212 (50 km/h, 100% frontal) ) <b>2 hours</b> 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 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
- Easy to use ( application with battery gun / 1C pneumatic gun)

#### APPLICATION AREAS

TEROSON PU 8630 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-resistant, pasty
Density g/cm <sup>3</sup>	approx. 1.2
Solids	100 %
Shore-A-hardness (DIN 53505)	approx. 60

Tensile strenght (DIN 53504)	approx. 9.5 MPa
Stress (DIN 53504)	approx. 5.7 MPa at 100 % elongation
Shear modulus (according to DIN 54451)	approx. 3.0 MPa
Elongation at break (DIN 53504)	approx. 370 %
Shear strength	
Layer thickness 5mm based on DIN 54451	4 to 5 MPa (fully cured)
Specific forward resistance (ASTM D 257-99 / DIN IEC 60093)	approx. 1×10 <sup>10</sup> Ω cm
Volume change (DIN 52451)	< 1 %
Glazing time:*	max. 25 min
Material application temperature, °C	60 to 70
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.

#### 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. 15 minutes before the direct glazing sealant is

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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 8630 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 8630 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 8630 HMLC is applied as usual, but taking into consideration the layer thickness of the pre-coating.

## PROCESSING

Prior to its use, the cartridge containing the A-component of TEROSON PU 8630 HMLC must be warmed in the TEROSON cartridge warming box for at least 30 minutes, resp. 60 minutes in the pre-heating box for cartridges and foil packs. Immediately before the application, the B-component is fully screwed onto the opened cartridge. Then processing is carried out using a battery driven gun or a compressed-air pistol with a piston rod.

Recommended tools:

TEROSON PoweLinell ; working pressure: 8 to 10 bar

Application should be performed in one step. Extrusion time for a complete cartridge should be between 90 to 120 seconds to achieve the best performance.

## STORAGE

Frost sensitive	yes
Recommended storage temperature	5 to 25 °C
Shelf life	12 months aluminium cartridge

## Disclaimer

### Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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