

# TEROSON PU 92

March 2017

## PRODUCT DESCRIPTION

<b>Technology</b>	1c-Polyurethane
<b>Product Type</b>	Car Body Sealant, Adhesive
<b>Additional Function</b>	excellent elasticity paintable

TEROSON PU 92 is a one component adhesive/sealant based on polyurethane, which cures by reaction with moisture to a soft elastic product. The skin formation and curing times are dependent on humidity and temperature. The cure through time also depends on joint depth. By increasing the temperature and moisture these times can be reduced. Low temperature as well as low moisture retards the process. TEROSON PU 92 exhibits the following properties:

- good adhesion to painted surfaces, many metals and plastics
  - without primer
- can be overpainted
- sag resistant
- high curing speed
- excellent elasticity

## APPLICATION AREA

TEROSON PU 92 is used for elastic sealing and bonding, particularly seam sealing and sealing of narrow joints in the following areas:

- vehicle and vehicle body manufacture
- vehicle body build-ups
- railway carriage and container manufacture
- ship and boat building
- metal, facade and plant manufacture
- air conditioning and air ventilation.

TEROSON PU 92 is used in cases where painting is of particular importance. TEROSON PU 92 can often replace mechanical fixation methods e.g. screws, welding, clamps etc. Temporary fixation of the joint with adhesive tapes or spacers should be conducted until the adhesive/sealant has completely cured.

TEROSON PU 92 offers the important advantage that both bonding and sealing functions can be conducted with one product. TEROSON PU 92 is not generally suitable for constructive bonding.

## TECHNICAL DATA

(Typical Test Results)

Colour	black, grey, white
Density	approx. 1.15 g/cm <sup>3</sup>
Odour	aromatic (no smell after curing)
Consistency	pasty
Sag resistance	very good

Curing mechanism	moisture curing
Skin formation time (23°C, 50% rh)	approx. 35 min(s).
Cure rate (23°C, 50% rh)	approx. 4 mm/ 24 hour(s)
Shore A hardness	approx. 35
Tensile strength	approx. 1.6 MPa
Elongation at break	approx. 620 %
Application temperature	5 to 35 °C
In service temperature range	-40 to 70 °C
short exposure (up to 3h)	120 °C

## PRELIMINARY STATEMENT

Prior to application it is necessary to read the **Material 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.

## DIRECTIONS OF USE

### Adhesion

Good adhesion without primer to primed and painted vehicle body, wood, plastics. Grinding of the surface is recommended for untreated sheet metal. Depending on substrate surface, it is necessary to use an Henkel approved primer as an adhesion promoter. Due to the large number of various surfaces we recommend application trials before use.

### Pretreatment

The surfaces to be bonded or sealed must be dry, free of oil, dust, grease and other contaminants. For pretreatment we recommend the approved surface preparator of the TEROSON program (TEROSON VR 20), because other products for pretreatment may lead to incompatibilities.

### Application

TEROSON PU 92 can be directly applied from cartridges or foil packages employing standard air or hand operated guns. For air pressure application 2 to 5 bar are necessary. Low material temperature will lead to an increase of viscosity, resulting in a lower extrusion rate. This can be avoided by bringing the material up to room temperature prior to application. To avoid condensation it is necessary to bring the substrates up to room temperature. After application TEROSON PU 92 can be smoothed with a spatula dipped in TEROSON VR 20. For application from pails and drums please contact your responsible sales representative.

## Painting

After skin formation TEROSON PU 92 can be painted over. The paint compatibility of the various paints has to be tested before use. Corrosion protection primer paints may only be applied on to cured TEROSON PU 92, as these usually permit only very low water vapour transmission. In cases where accelerated paints drying in a drying oven or with IR radiation is required (max. 70°C), a pre-reaction/ waiting period of minimum 30 minutes must be respected.

## Incompatibility

Nitro repair paints applied from aerosol cans or alcohol based paints, diluents and accelerators are not compatible with TEROSON PU 92 before sufficient skin formation.

## CLEANING

For cleaning application equipment contaminated with uncured TEROSON PU 92 we recommend the use of TEROSON VR 20.

## STORAGE:

Frost sensitive	no
Recommended storage temperature	10 to 25 °C
Shelf life	12 months in original packaging

## CLASSIFICATION:

Please refer to the corresponding **Material Safety Data Sheets** for details on:  
**Hazards identification**  
**Transport information**  
**Regulatory information**

## 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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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