TEROSON

Technical Data Sheet

TEROSON PU 92

April 2021

PRODUCT DESCRIPTION

Technology	1c-Polyurethane
Product Type	Car Body Sealant, Adhesive
Additional Function	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 Areas:
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-up.
- 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/cm³
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

DIRECTIONS FOR USE

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.

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. 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.

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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.

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

Storage:

Frost sensitive	no
Recommended storage temperature	15 to 25 °C
Shelf- life	12 months

ADDITIONAL INFORMATION

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