

# **TEROSON® PU U632 LV/TEROSON® PU U153**

January 2025

#### **Product description**

 ${\rm TEROSON}^{\circledast}$  PU U632 LV/TEROSON  $^{\circledast}$  PU U153 has the following product characteristics:

Technology	2k polyurethane
Product type	Semi structural adhesive
Application	Adhesive
Additional information	Elastic

 ${\sf TEROSON}^{\circledast}$  PU U632 LV/TEROSON  $^{\circledast}$  PU U153 is a polyurethane based two-component adhesive which cures at room temperature. For accelerated curing it is recommended to use a heat source.

#### **Application areas**

TEROSON<sup>®</sup> PU U632 LV/TEROSON<sup>®</sup> PU U153 is used in the automotive industry by Headlight manufacturers for bonding lens to body. For any other substrate please ask our technical advice.

#### Technical data

(Typical test results)

#### **Component A (Polyol)**

Colour	black
Density, g/cm <sup>3</sup>	approx. 1.6
Solids, %	>99
Viscosity, Brookfield RVT, @23°C, mPa.s Spindle 7, 20 rpm	approx. 100,000
Component B (TEROSON® PU U153)	
Colour	black
Density, g/cm <sup>3</sup>	approx. 1.3

Density, g/cm <sup>3</sup>	approx. 1.3
Solids, %	>99
Viscosity, Brookfield RVT, @23°C, mPa.s Spindle 6, 10 rpm	approx. 22,000

#### Mixing ratio A : B

by weight	100 : 18
by volume	100 : 21.3

#### Mixture (Component A + B)

Pot life, (60 g, 23°C), min	approx. 3
Shear strength, 23°C after 7 d curing, MPa	>1.5

#### Directions for use

#### Preliminary statement

Prior to use 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. Please also refer to the local safety instructions and contact Henkel for analytical support.

#### Pretreatment

The parts to be bonded must be free from oil, grease, moisture, dirt and release agents. From the Henkel portfolio for example TEROSON® PU 8550 or TEROSON® VR 20 can be used as cleaners. In the case of plastics a flame pre-treatment like plasma or corona can be necessary to ensure good adhesion of TEROSON<sup>®</sup> PU U632 LV/TEROSON<sup>®</sup> PU U153 to the substrate. Occasionally usage of a primer is also an option.

#### Application

Apply using a meter mix pump. Product is temperature sensitive with a short pot life. Extrude a bead on one of the substrates to be bonded. Position rapidly second substrate and apply a light pressure for several minutes. Do not mix with other products. Purge and rinse mix head regularly to avoid fouling. To ensure proper mixing, static mixers with at least 24 mixing elements are required. For any other applying condition, please ask for our technical advice.

#### Curing

Curing occurs at room temperature. At the beginning curing should occur under fixation of the substrates to avoid shifting of the parts to be bonded (especially in the case of tension between the join partners). The rate of cure is temperature-dependent and influences open time and time to handling strength. Higher temperatures accelerate, lower temperatures slow down the curing speed. For accelerated curing it is recommended to increase the temperature up to 60 to 70°C. Final strength is widely reached after 3 days at room temperature.

#### Cleaning

Freshly applied and uncured material should be removed with a dry cloth or using a solvent as TEROSON® VR 40 or MEK. Cured adhesive can only be removed mechanically.



Storage TEROSON® PU U153	
Frost sensitive	Yes
Recommended storage temperature, °C	5 to 25*
Shelf life, months	6

A sufficient agitation is always recommended just before use to eliminate any possible phase separation on top of the product. For the agitation we recommend to place the full closed pail during 5 minutes in a gyroscopic mixer or in a portable drum roller. After homogenization the most appropriate is to use the product within 48 hours.

 $^{\ast}$  or 5°C to 35°C if a "bi-axial gyroscopic" agitation is made just before use.

### Storage

TEROSON®	PU	U632 LV	

Frost sensitive	Yes
Recommended storage temperature, °C	5 to 35
Shelf life, months	8

Avoid moisture. Ensure a good rotation of stocks by using oldest material first.

#### Disclaimer

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 Technical data sheet or any other written or oral the 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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