

TEROSON PU 8590

November 2013

Ultra high viscous direct glazing adhesive**PRODUCT DESCRIPTION**

Technology	1c Polyurethan Adhesive free from PVC and solvents
Product Type	Direct Glazing for industrial use

TEROSON PU 8590 is outstanding for the following properties:

- Very good sag resistance
- High cure rate
- High shear strength and good elasticity, even after aging
- Excellent adhesion to glass, glass with ceramic coating, encapsulation and to painted surfaces, in connection with primer/activator
- High UV resistance

APPLICATION AREAS

TEROSON PU 8590 is used for the bonding of front, rear and side screens to the body of motor vehicles (car, truck, bus).

TECHNICAL DATA
(Typical Test Results)

Colour	black
Odour	imperceptible
Consistency	pasty
Density	1.25 g/cm ³
Viscosity at 23 °C	3,000 to 4,500 Pas Flow approx. 300 g / 30 sec (6 bar, Powerline)
Solids	100 %
Curing mechanism	moisture curing, accelerable
Cure rate (23 °C, 50 % rh)	approx. 4 mm / 24 h
Skin formation time (23 °C, 50 % rh)	approx. 25 min
Shore A hardness	approx. 60
Tensile strength	approx. 8 MPa
Elongation at break	approx. 400 %
Shear modulus G10	approx. 1.5 MPa
Shear strength	approx. 5 MPa
In service temperature range	-40 to 90 °C
Recommended application temperature	15 to 50 °C

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 AND PRIMING

Ensure that the substrates to be bonded are dry and free from oil, dust, grease and other dirt. Use for glass, paint and cathaphoretic dip painting (E-coat) the approved cleaners. The approved Henkel primer has to be used according to prior agreement with Technical Customer Service.

Application

It is recommended to use a complete heated application system. In some cases a partly heating can be sufficient.

- The entire equipment, including hoses and pipes, must be moisture tight.
- The follower plate must be driven by a double ram.
- Necessity of centering the container.
- It is recommended to switch off heating during a shutdown of more than 1 hour.
- The adhesive is applied from pails or drums using high pressure piston pumps with a pneumatic ratio minimum 55:1.

Due to the various application conditions it is recommended to follow the references in the current valid application data sheet. The application data sheet also provides necessary information about suitable application equipment and conditions. For further information, please contact the responsible sales representative.

STORAGE

Frost sensitive	no
Recommended storage temperature	15 to 25 °C
Shelf life	up to 12 months depending on packaging

TEROSON PU 8590

November 2013

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.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Henkel AG & Co. KGaA

D-40191 Düsseldorf, Germany

Phone: +49-211-797-0

www.henkel.com**Henkel Central Eastern Europe GmbH**

A-1030 Wien, Austria

Phone: +43-1711-040

www.henkel.com**Henkel & Cie AG**

CH-4133 Pratteln, Switzerland

Phone: +41-61-825-7000

www.henkel.com