

**Teroson**

## ***Fit for the Future***

**Teroson's New Generation Of Direct Glazing Sealants**

- **Terostat-8600 2K HMLC**
- **Terostat-8599 HMLC**
- **Terostat-8597 HMLC**
- **Terostat-8596**



# Set standards *create markets*

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Innovations do not come about just like that. They are the result of many years of research, comprehensive practical experience, and last but not least the will to always think ahead a little further and to keep future developments in mind all the time.

Teroson has been meeting these challenges for many years and has developed products and system solutions that do not simply follow current trends, but set them, in the original equipment manufacturing and in the repair shop sector.

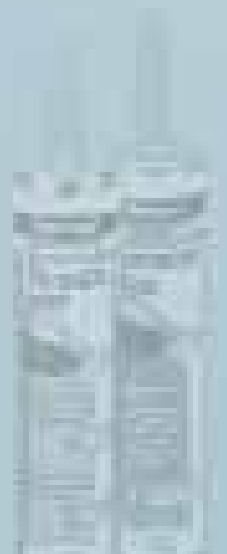
## From series production *directly into the repair shop*

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This is especially true for the development of modern direct glazing sealants that will show the future direction of direct glazing. Nowadays modern motor vehicles not only have an extremely light construction, but their active and passive safety have been improved tremendously. Windscreens and car windows in general have long been regarded as parts relevant to safety. The requirements and quality that a direct glazing sealant product has to meet are therefore extremely high. This is not only the case in production and original equipment manufacturing respectively, but also in aftermarket repairs.

Some years ago Teroson set standards developing and introducing the one component direct glazing sealants **Terostat-8597** and **Terostat-8599**.

**Terostat-8599** still holds the position of fastest direct glazing sealant on the market due to its readiness to drive away in only 15 minutes. This has been certified by the German Technical Inspection Agency. It is this advance in development that thousands of repair shops and car glass specialists rely on all over Europe.



# Safety first -

## *anticipate tomorrow's needs today*

Car design, more than ever, places a high focus on improved safety. The wind-screen and other car glass increasingly play the pivotal role in all these developments. Not only does it act as a barrier when the airbag deploys or offer protection against intruding objects, it provides a constructive element for the structural stability and therefore safety of the entire vehicle body shell.

Due to the lack of a European standard, the safety of vehicles has been tested according to procedures in compliance with the US standard FMVSS, during which the vehicle is crashed head-on against a stationary barrier at a speed of 50 km/h, in order to determine the drivability after repair. The analysis of accidents has shown that this kind of crash test only covers a very small percentage of real accidents. Far more accidents result in a partial overlap of the vehicles involved and also happen at higher speed.

### **More stringent, more honest**

***and above all, standardised:***

***The new Euro NCAP standard***

According to the US-American model, European automobile clubs, research institutes, consumer organisations, the EU and European governments have developed a new standard which requires far more stringent crash test conditions. The new Euro NCAP-Standard requires the crash test to be performed with a 40% overlap and at a speed of 64 km/h. It is a matter of fact that all reputable vehicle manufacturers are already performing their own crash tests according to the new European standard. This development called for new system solutions in direct glazing repairs, as requirements resulting from those demanding testing methods in combination with acceptable automobile durability can be met only by using 2K-products. The majority of 2K-products that are on the market are very difficult to handle or can only be used within a narrow temperature range. That's why many direct glazing specialists will not use them.



# Terostat-8600 2K HMLC – *the future has already begun*

Terostat-8600 2K HMLC, the first two-component sealant which can be applied just as easily and unproblematically as a one component sealant. This latest product of Teroson meets the requirements and developments of the automobile industry and offers the crash safety in accordance to the new European NCAP (New Car Assessment Programme). 60 minutes after the windows have been sealed, Terostat-8600 2K HMLC passes the 64 km/h and 40% overlap crash test at 0% loosening of the car window from the body, tested and certified by the Technical Inspection Agency TÜV Rhineland.

The new Terostat-8600 2K HMLC can, of course, be used for all different types of vehicles and car windows. Whether it's a motor car, a truck or a bus, or whether it's a windscreen, a side window or a rear window, or whether low conductivity, high shear modulus or an optimal high frequency property are required – Terostat-8600 2K HMLC is always the right choice for any kind of application. Its extremely high solidity allows for the application of stable sealant strips even on vertical surfaces.

This new direct glazing sealant of Teroson has already proven its full potential in practise. At present many well known car manufacturers already trust in this technology of the future. Terostat-8600 2K HMLC is already being used and homologated for the car glass repair.

Curing time of Terostat-8600 2K HMLC in comparison to other good ordinary 1-K products



Measurements taken in the standard operating environment:  
23° C, 50% relative humidity

**Easy, safe  
and fast!**



- ▶ Push the Terostat-8600 2K HMLC A-component into the cartridge warming box. Put the cartridge top (component B) onto the cartridge warming box. Warm for 30 minutes.



- ▶ Pierce the cartridge (component A).
- ▶ Screw the cartridge top (component B) onto the cartridge (component A), and then screw on the nozzle that has been cut accordingly using the nozzle pliers.
- ▶ Apply Terostat-8600 2K HMLC using air pressure gun Cox 310 ml HP Sherborne.
- ▶ For extra large car windows there's a 150 ml additional cartridge provided.

**Terostat-8600 2K HMLC cures independently of temperature and humidity.**

**The repaired vehicle is ready to drive:**

- ▶ 15 minutes after the sealing of the windscreen or car window, checked in accordance to the US Standards FMVSS (50 km/h, front-end impact/head on collision)
- ▶ 60 minutes after the sealing of the windscreen or car window according to the European EURO NCAP-Norm (64 km/h, 40% overlap)

# Proven products – *now even better!*

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Teroson's new legendary 8599 and 8597 have also been upgraded and improved to further enhance our range of sealants. How?:

## **Low conductivity**

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Permanent corrosion protection against creepage in aluminium body shells and motor cars with rear window heating

## **Optimal high frequency behaviour**

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This reduces interferences in reception with integrated antennas for radio, mobile, and navigation systems etc.

## **High shear modulus**

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Their high shear modulus (3 MPa) guarantees the torsional stiffness of the body shell and thus contributes actively in raising the safety level.

## **Terostat-8599 HMLC**

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A one-component sealant. Vehicles that have been repaired with Terostat-8599 HMLC are ready to drive away after only 15 minutes after the windscreen has been put in, no matter whether they have an airbag or not. Terostat 8599 HMLC has not only proven its reliability in action a thousand times over, but also passes the head-on crash tests at 50km/h with a full-size airbag and dummies wearing seatbelts, as tested by the German Technical Inspection Agency.

## **Terostat-8597 HMLC**

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No matter whether there's a high shear modulus, low conductivity, an airbag or no airbag, the one-component standard direct glazing sealant Terostat-8597 HMLC gives you the performance and simplifies car glass repairs in all types of vehicles and windows.

## **Standard**

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## **Terostat-8596**

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Should low conductivity, high shear modulus and short drive away times with motor cars with airbags not be your priorities, then Terostat-8596, which has proven itself in years of usage, is the product for you.



# The Range of Products

	Terostat-8600 2K HMLC	Terostat-8599 HMLC	Terostat-8597 HMLC	Terostat-8596
Product base	2K-PUR	1K-PUR	1K-PUR	1K-PUR
Application	warm	warm	cold	cold
Pre-heating time in the warming box	30 min.	15 min.	-	-
Glazing time	max. 10 min.	max.15 min.	max. 25 min.	max. 25 min.
Specific electric conductivity (Siemens)	10 <sup>-10</sup>	10 <sup>-10</sup>	10 <sup>-10</sup>	10 <sup>-5</sup>
Specific electric resistance (Ohm)	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>5</sup>
Optimum high-frequency characteristics	yes	yes	yes	no
Shear modulus	ca. 3 MPa	ca. 3 MPa	ca. 3 MPa	ca. 1.2 MPa
Sag resistance	excellent	excellent	excellent	excellent
Drive-away-time according to US Standard (50 km/h head-on crash)				
without airbag	15 min.	15 min.	1 hour	2 hours
with airbag	15 min.	15 min.	2 hours	6 hours
Drive-away-time according to Euro-NCAP Standard (64 km/h, 40% overlap)	60 min.	*	*	*
Art. no./ kit				
310 ml	-	168.73Q	168.79X	164.75H
150 ml	166.32 D	-	168.76T	-
Set	164.74 G	168.75S	168.80Y	168.83B
Foil cartridge 400ml	-	-	**	-
Foil cartridge 570 ml	-	-	**	-

\*depending on product, geometry of the windows, ambient conditions etc. after 12 - 48 hours

\*\* will follow

## ■ Terostat-8525 Activator

For activating pre-coated windows.  
Art. no. 160.95 V (vol. 10 ml)

## ■ Applicators

For applying Terostat glass primer 8517 H  
Art. no. 140.64 M (contents 25 pieces)

## ■ Terostat Glass Primer 8517 H

For UV protection and promoting adhesion.  
Art. no. 167.83 S (vol. 25 ml),  
Art. no. 167.84 T (vol. 100 ml)

## ■ Cleaner and Thinner FL

For cleaning car windows with or without ceramic-coatings.  
Art. no. 169.19 Q (vol. 1 litre)

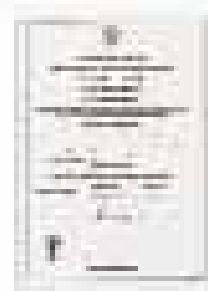
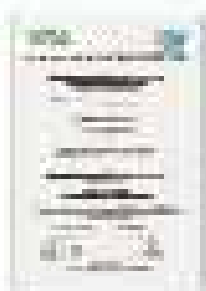
## ■ Warming-box for the cartridges

For pre-heating of Terostat-8599 HMLC and  
Terostat-8600 2K HMLC  
Art. no. 131.17 H

## ■ Professional Nozzle Pliers

For cutting nozzle to users' exact requirements  
Art. no. 163.15 J

## *Teroson products - certified quality*



### Henkel Loctite Adhesives Ltd.

Watchmead, Welwyn Garden City, Herts. AL7 1JB

Tel: 01707 358800 Fax: 01707 358900

[www.loctite.com](http://www.loctite.com)