



Terostat-8590

Abridged Version ALI

Moisture Curing, One-Component
 Direct Glazing Sealant for Repair Glazing of Vehicles
 Vehicle without Airbag can be Driven after 2 Hours

Basis: Polyurethane

Status: 2003-02-21

Product Description

Terostat-8590 is a one component, moisture curing Direct Glazing Sealant with excellent sag resistance 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, and the curing time also depends on joint depth. By increasing the temperature and moisture these times can be reduced; low temperature as well as low moisture retard the process.

The Direct Glazing Sealant demonstrates the following characteristics:

- excellent adhesion with Primer Terostat-8510 on glass, ceramic coated glass and on painted surfaces
- excellent adhesion on material residues
- high cure rate
- high UV resistance in connection with Primer Terostat-8510
- high shear strength, retained on ageing.

Application Areas

Bonding of front, rear and side screens to the body of passenger cars, trucks, busses, forklift and tractor cabins as well as special vehicles. Single or double pane side window glazing in the bus and railway coach industry.

Technical Data

1. Terostat-8590

Colour:	black
Odour:	weak
Consistency:	smooth, sag-resistant paste
Density:	approx. 1.25 g/cm ³
Solids:	100 %
Curing mechanism:	moisture curing
Skin formation time:	approx. 30 mins
(DIN 50014 standard climate:	23°C, 50 % rh)
Cure rate:	approx. 4 mm/24 h
(DIN 50014 standard climate:	23°C, 50 % rh)
Shore-A-hardness (DIN 53505):	approx. 50
Tensile strength (DIN 53504):	approx. 7.5 MPa
Shear strength:	approx. 2 MPa (after 24 h DIN 50014)
(thickness 5mm, based on DIN 53283)	5–6 MPa (fully cured)
Volume change (DIN 52451):	< 1 %
Glazing time:	maximum 30 mins *
Application temperature:	5°C to 35°C
In service temperature range:	-40°C to 90°C
Short exposure (up to 1h):	130°C

* period of time between beginning of material application until inserting of the pane

2. Terostat-Primer-8510

Colour:	black
Density:	approx. 1.05 g/cm ³
Solids:	approx. 39 %
Optimum layer thickness:	50 µm wet
Drying time:	approx. 15 mins
Primer open time:	up to 6 hrs after application

Preliminary remark

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.

1. Cleaning

The surfaces to be bonded must be dry, free of oil, dust, grease and other contaminants. Glass or ceramic coatings as well as the painted surface are cleaned with Cleaner-FL. The residual cut layer (see below) should not be cleaned normally. If cleaning of this layer cannot be avoided, a **drying time of a minimum of 30 minutes** prior to sealant application has to be observed, because the adherents have to be absolutely dry. For cleaning the residual cut layer we recommended Teroson Cleaner FL. Cleaner with alcohol are not recommended. Those cleaners might block the curing of the adhesive.

2. Priming

Surface priming is carried out by a thin (ca. 0.05 mm wet) and even coating of Primer-8510 on the cleaned glass, ceramics or paint surface, using the applicator provided with the Repair Set. The primed area must be allowed to air dry for ca. 15 minutes before applying the Direct Glazing Sealant. Do not use a primer when the material is applied onto a bead of cut and cured adhesive/sealant left on the body flange. The cut surface – if not contaminated by dust or grease – provides an ideal substrate for application of fresh Terostat-8590.

3. Activation of pre-coated screens

Screens which have been pre-coated by the glass manufacturer with a PUR based adhesive/sealant must be treated with Activator Terostat-8525 to ensure trouble-free adhesion of Terostat-8590 on to the pre-coated layer.

Terostat-8525 is applied with a wool applicator in a thin layer and allowed to air dry for ca. 15 minutes. Terostat-8590 can then be applied in the normal manner but care must be exercised to take into account the 2 mm thickness of the pre-coating.

Screens pre-coated with PUR based adhesive/sealant are used for instance on many types of VW/ Audi vehicles.

4. Application

Terostat-8590 can be directly applied from cartridges employing standard air or hand operated guns. Teroson recommends the use of

- Teleskop Pistol Power-Line Art.-No. 141.84 S
- Teroson Staku Hand Pressure Pistol Art.-No. 167.65 Y

The instructions included in the Teroson Glazing Repair Set contain a detailed description of the repair operation.

Test Certificate

Terostat-8590 is tested by the German TÜV. The respective test certificate of the TÜV-Südwest is available:



**2 hours after glazing a vehicle
without airbag can be driven again.**

Storage

Frost-sensitive	no
Recommended storage temp.	10°C to 25°C
Shelf-life	18 months in original packaging

Packaging

Cartridge	310 ml	Art.-No. 136.92 H (D/GB/F/NL) IDH-No. 149996
Cartridge	310 ml	Scandi-Code 245
Direct Glazing Repair Set	1 box	Art.-No. 127.37 V (D/GB/F/NL) IDH-No. 329897
Direct Glazing Repair Set	1 box	Scandi-Code 255
Applicator Set	25 pieces	Art.-No. 140.64 M (D/GB/F/NL/E/P/GR) IDH-No. 142245
Cartridge	310 ml	Art.-No. 149.44 T (E/P/I/GR) IDH-No. 211807
Direct Glazing Repair Set	1 box	Art.-No. 128.74 T (E/P/I/GR)

Hazard Indications/

Safety Recommendations/

Transport Regulations

see Safety Data Sheet

Important

The above data, particularly the recommendations for application and use of our products are based on our knowledge and experience. Due to different materials and conditions of application which are beyond our knowledge and control we recommend strongly to carry out sufficient tests in order to ensure that our products are suitable for the intended processes and applications. Except for wilful acts any liability based on such recommendations or any oral advice is hereby expressly excluded.

This Technical Data Sheet supersedes all previous editions.

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