

Terostat-9120

Elastic One Component Bodywork Sealant
Free of Isocyanates

Basis: MS[®]-Polymer

Status: 2002-05-23

Product Description

Terostat-9120 is a gun-grade, one component sealant based on MS[®]-polymer, which cures by reaction with moisture to an 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.

Terostat-9120 is free of solvents, isocyanates, silicones and PVC and has only a weak odour (after curing it is odourless). It demonstrates good adhesion without primer to many substrates and is compatible with customary 1C and 2C car paints.

Terostat-9120 shows no shrinkage, and therefore dimpling and tension stress are not observed under these conditions. This property of the product also remains at the temperatures in repair ovens. As long as the applied material is uncured, Terostat-9120 is spotweldable.

Terostat-9120 also demonstrates good UV resistance and can therefore be used for interior and exterior applications.

Terostat-9120 is the ideal backfilling material for the sprayable seam sealant Terostat-9320.

Application Areas

Terostat-9120 is used for the following applications:

seam and joint sealing in the following areas: vehicle repair, vehicle body, railway carriage, container and vehicle build-up construction industries.

Technical Data

Colour:	white, grey, black
Odour:	odourless
Consistency:	paste
Density:	approx. 1.45 g/cm ³
Solids:	100 %
Curing mechanism:	humidity curing
Skin formation time:	approx. 10 mins
(DIN 50014 standard climate:	23°C, 50 % rh)
Cure rate:	approx. 3 mm/24 h
(DIN 50014 standard climate:	23°C, 50 % rh)
Shore-A-hardness (DIN 53505):	approx. 50
Tensile strength(DIN 53504):	approx. 2.5 MPa
Elongation to break (DIN 53504):	approx. 250 %
Volume change (DIN 52451):	< 2 %
Application temperature:	5°C to 40
Paint compatibility:	can be painted (see painting properties)
In service temperature range:	-30°C to 100°C *
Short exposure (up to 3 hr.):	110°C

Adhesion

Good adhesion to sheet metal (in degreased raw, phosphated, galvanized chromium treated or top-coat painted condition); stainless steel, brass, aluminium (untreated, anodized or painted); PC, polyester; on thermo-plastic blends trials are recommended, roughening of the surfaces will result in an increase of adhesion in any case.

No adhesion to PE, PP, PTFE (e. g. Teflon®) and PMMA (e. g. Perspex®). Substrates not mentioned above should be subject to trials.

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.

Pretreatment

The substrates must be clean, dry, oil and grease free. For cleaning, Cleaner-FL from the Teroson programme is suitable.

Application

Terostat-9120 can be directly applied from cartridges employing standard air or hand operated guns. Teroson recommends the use of

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|--------------------------------------|-------------------|
| – Teroson-Hand Pistol 340 | Art. No. 121.39 V |
| – Teroson Staku Hand Pressure Pistol | Art.-No. 167.65 Y |
| – Teleskop Pistol Power-Line | Art.-No. 141.84 S |
| – Teleskop Pistol Multi-Press | Art. No. 195.51 B |

Low material temperatures of the sealant will lead to an increase of viscosity, resulting in a lower extrusion rate. This can be avoided by bringing the sealant up to room temperature prior to application.

If substrates are too cold temperature may fall below dew point causing condensation. This can be avoided by bringing the substrates up to room temperature in time.

Tip based on our practical experience

Terostat-9120 can serve as a backfilling material for the sprayable seam sealant Terostat-9320 when filling deep joints, extruding Terostat-9320 wet-on-wet onto Terostat-9120.

Cleaning

For cleaning application equipment contaminated with uncured Terostat-9120 we recommend the use of Diluent-FL. Cured material can only be removed mechanically.

Painting Properties

Terostat-9120 can be painted wet-on-wet with 1C and 2C repair paints, including those containing alcohols as solvents. Curing is not hindered by an immediate painting but retarded.

2C-PUR/acrylic paints show best results when the painting is done prior to full curing. For optimum adhesion the material should be painted within 3 days after application of the sealant. After full curing the sealant must be pretreated similar to plastic painting. A retardation of drying may be observed with alkyd resin systems (trials are recommended). On certain types of 2C double layer metallic paints adhesion failures may be observed under unfavourable conditions (trials with plastic primers of the paint manufacturers are recommended). When using certain silicone removers adhesion failures are possible, too.

Incompatibility

Uncured Terostat-9120 may only be coated with Terotex-Record 2000 and Terotex-HV 200 extra **after complete curing**.

Terostat-9120 must not be coated with Terotex-Super 3000.

Terostat-9120 must not be applied wet-on-wet together with isocyanate containing materials.
Terostat-9120 should not be treated with systems containing aromatic solvents for this may lead to an etching or swelling of the sealant.

Storage

Frost-sensitive	no
Recommended storage temp.	10°C to 25°C
Shelf-life	12 months in original packaging

Packaging

Cartridge	310 ml (white)	Art.-No. 102.78 X (D/GB/F/NL)
Cartridge	310 ml (white)	Scandi-Code 291
Cartridge	310 ml (grey)	Art.-No. 113.12 W (D/GB/F/NL)
Cartridge	310 ml (black)	Art.-No. 113.23 H (D/GB/F/NL)
Cartridge	310 ml	Art.-No. 171.12 A (S/SF/DK/N)
Cartridge	310 ml (white)	Art.-No. 171.21 K (E/P/I/GR)

Hazard Indications/

Safety Recommendations/

see Safety Data Sheet

Transport Regulations

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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