

TEROSON MS 9320 SF

September 2013

PRODUCT DESCRIPTION

TEROSON MS 9320 SF provides the following product characteristics:

Technology	SMP technology
Product Type	Multi-functional sealant 6in1
Components	One-component
Cure	Humidity
Appearance	Black, Grey, Ocher
Consistency	Pasty

TEROSON MS 9320 SF is a sprayable sealant based on SMP-Polymer, that crosslinks to a rubber-elastic material with good abrasion resistance by absorbing humidity from the air. Skin formation time and curing time depend on humidity and temperature. In addition, the curing time also depends on the layer thickness. By increasing the temperature and humidity, the reaction time can be reduced; low temperatures as well as low humidity retard the process. TEROSON MS 9320 SF is outstanding on account of the following properties:

- Sealant and seam sealing product in one
- High sag resistance
- Sprayable and brushable
- Can be applied using a flat spray nozzle or a broad jet nozzle
- Can be painted up to three days after application with solvent-coating and water borne paint systems
- Broad range of adhesion without the use of primer
- Spotweldable if not completely cured
- free of isocyanate and silicone
- Very rapid curing
- UV resistant
- High ageing resistance

Application Areas:

TEROSON MS 9320 SF is used with automobiles, particularly for the repair sealing of seams originally applied, in the following areas:

- engine compartment
- luggage boot
- passenger cabin
- wheel housing/underbody.

Every structural seam can be obtained with appropriate nozzles by means of the Telescope-Pistol Multi-Press or the PowerLine II pistol.

TEROSON MS 9320 SF is used as a surface coating for repair purposes or completing PVC underbody coating and/or stone chip protection.

TECHNICAL DATA

Colour:	grey, ocher, black
Odour:	characteristic
Density, g/cm ³ :	approx. 1.5
Consistency:	paste
Sag resistance:	very good
Curing mechanism:	humidity curing
Cure rate, mm/24 hrs*:	approx. 4.5
Skin formation time, min*:	8 to 20
Shore-A-hardness (DIN 53505):	approx. 30
Adhesion:	raw metal sheet, EC paint, top-coat paint, metallic paint
Paint compatibility:	Yes (see for: overpainting)
Chemical resistance:	resistant to UV-ageing and weathering
Application temperature, °C:	15 to 35
In service temperature range, °C:	-30 to 90
Short exposure (up to 3 h), °C:	120

* DIN 50014 standard climate: 23°C, 50% relative air humidity

DIRECTIONS OF USE

Preliminary Statement:

Prior to use it is necessary to read the **Material 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.

Important:

For application of primers, fillers, primer fillers, paints or other coatings, technical guidelines from manufacturers have to be considered and followed.

Pre-Treatment:

The adhesion of TEROSONMS 9320 SF is improved, if the contact surfaces (plastics) are roughened with an abrasive non-woven. The substrates must be clean, dry and grease free. For pretreatment TEROSON VR 20 is suitable. After the cleaning of ground / bare steel and aluminum surfaces we recommend a pretreatment with BONDERITE 1455-W Wipes. This improves adhesion and corrosion protection.

Processing:

For the spraying of TEROSON MS 9320 SF from cartridges, the MultiPress telescope-pistol (for spraying on ly!) should be used. With this pistol it is possible to apply TEROSON MS 9320 SF either in the form of a material bead ("sealant bead") or to spray it on by means of a two-circuit air system. The PowerLine II-pistol with the appropriate nozzles must be used for reproducing the new flatstream seals, since this requires higher pressures. TEROSON MS 9320 SF can either be sprayed or brushed, i.e. with TEROSONMS 9320 SF it is possible to reproduce structural seams as well as structures obtained by means of a brush. TEROSON MS 9120 or TEROSON MS 9120 Super Fast, which are perfectly compatible with TEROSONMS 9320 SF can be used as an undercoat material. Virtually all types of structures specified by the manufacturer can be reproduced rapidly and without problems by means of appropriate adjustments of the pistols. Furthermore, it is possible to adapt the width and limitation of the seam depending on the spray distance. See the operating instructions for the adjustment and use of the pistols.

Cleaning:

For cleaning application equipment contaminated with uncured TEROSONMS 9320 SF we recommend the use of cleaner TEROSON VR 20. Cured material can only be removed mechanically.

Primer:

When primers are used (2-component epoxy resin primers are particularly suitable due to their good corrosion protection and adhesion), these should be completely dry/have fully cured according to manufacturers' instructions, before sealing or coating with TEROSONMS 9320 SF is carried out. On account of the great variety of systems available, we recommend that sufficient trials should always be carried out.

Fillers and primer fillers:

If, after repair of damages caused by an accident, the parts to be painted must be coated with a filler, primer filler or sprayable filling paste, these should ideally be applied before sealing or coating with TEROSON MS 9320 SF is carried out. If coating with a filler or primer filler shall be carried out only after TEROSON MS 9320 SF has been applied, this can be performed using special wet-on-wet systems. On account of the great variety of systems available, we recommend that sufficient trials should always be carried out.

Painting properties:

TEROSON MS 9320 SF can be painted with usual commercial available car paints immediately after it has formed skin. Early overpainting does not inhibit curing but slows down the curing process. Overpainting should be carried out within 3 days max. From the 4th day onwards, primer TEROSON 150 P Primer should be used before painting in order to achieve optimal adhesion. On account of the great variety of systems available, we recommend that sufficient trials should always be carried out.

Incompatibility:

TEROSON MS 9320 SF is not compatible with uncured 1C-polyurethane material. PU products must have completely cured until TEROSON MS 9320 SF is applied. TEROSON MS 9320 SF should have fully cured until it is coated with TEROSON WT R 2000 BK AQU. Also the material should not be treated with aromatic solvent systems, for example, TEROSON SB S 3000 or TEROSON RB R 2000 HS since this may cause the sealant to partially dissolve or swell.

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazards identification
Transport information
Regulatory information

Storage:

Shelf life:

Frost-Sensitive	No
Recommended storage temperature, °C	10 to 25
Shelf-life	12 months

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 and/or registered trademarks of Henkel and its affiliates in the U.S. and elsewhere.

Reference 0.2