TEROSON

Technical Data Sheet

TEROSON MS 9120

November 2019

PRODUCT DESCRIPTION

TEROSON MS 9120 provides the following product characteristics:

Technology	Silane-modified polymer
Product Type	Sealant
Components	One-component
Cure	Humidity
Application	Assembly
Appearance	White, Grey, Black
Consistency	Pasty
Odor	Odorless

TEROSON MS 9120 is a gun-grade, one component sealant based on silane modified polymers, 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. TEROSON MS 9120 is free of solvents, isocyanates, silicones and PVC, and is odorless. It demonstrates good adhesion to many substrates and is compatible with suitable paint systems. TEROSON MS 9120 demonstrates the strength necessary for elastic bonding. This property of the product also remains at the temperatures in repair ovens (max. 100°C). TEROSON MS 9120 shows no shrinkage and therefore dimpling and tension stress are not observed under these conditions. As long as the applied material is uncured, TEROSON MS 9120 is spotweldable. The sealant also demonstrates good UV resistance and can therefore be used for interior and exterior applications.

Application Areas:

TEROSON MS 9120 can be used for the following applications:
Seam and joint sealing in the following areas: vehicle repair, vehicle body, railway carriage, container and vehicel build-up construction industries.

TECHNICAL DATA

Colour:	white, grey, black
Odour:	odourless
Consistency:	paste
Density, g/cm³:	approx. 1.5
Skin formation time, min*:	approx. 8

Miscellaneous:

Curing mechanism:	humidity curing
Cure rate, mm/24 hrs*:	approx. 3
Shore-A-hardness (DIN 53505):	approx. 50
Tensile strength (acc. to DIN 53504), MPa:	approx. 2.5
Elongation at break (acc. to DIN 53504),%:	approx. 250
Volume change (acc. to DIN 52451), %:	<2.5
Application temperature, °C:	5 to 40
Paint compatibility:	can be painted (see painting properties)
In service temperature range, °C:	-30 to 100
Short exposure (up to 3 h), °C:	110
* DIN 50014 standard climate:	23°C, 50% relative air humidity

DIRECTIONS OF USE

Preliminary Statement:

Prior to application 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.

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Adhesion:
Good adhesion to sheet metal (in degreased raw, phosphated, galvanized chromium treated or topcoated paint condition); stainless steel, brass, aluminium (untreated, anodized or painted); PC, polyester; on thermoplastic blend 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.

Pre-Treatment:
The substrates must be clean, dry, oil and grease free. . For pretreatment TEROSON VR 10 is suitable. .

Application:
TEROSON MS 9120 can directly be applied from cartridges employing standard air or hand operated guns. 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 applicationIf 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:
TEROSON MS 9120 can serve as a backfilling material for the sprayable seam sealant Teroson MS 9320 when filling deep joints, spraying Teroson MS 9320 wet-on-wet onto TEROSON MS 9120.

Cleaning:
For cleaning application equipment contaminated with uncured TEROSON MS 9120 we recommend the use of cleaner TEROSON VR 10.
Cured material can only be removed mechanically.

Painting properties:
TEROSON MS 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 manufacturer are recommended). When using certain silicone removers adhesion failures are possible, too.

Incompatibility:
TEROSON MS 9120 is not compatible with uncured 1C-polyurethane material. PU products must have completely cured until TEROSON MS 9120 is applied. TEROSON MS 9120 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.

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Henkel AG & Co. KGaA
40191 Düsseldorf, Germany
Phone: +49-211-797-0

Henkel Corporation
Rocky Hill, CT 06067, USA
Phone: +1-860-571-5100

Henkel (China) Co. Ltd.
201203 Shanghai, China
+86.21.2891.8000