TEROSON

Technical Data Sheet

TEROSON MS 9120 SF

June 2017

PRODUCT DESCRIPTION

TEROSON MS 9120 SF provides the following product characteristics:

Technology	Silane-modified polymer
Product Type	Car body sealant
Components	One-component
Cure	Humidity
Application	Assembly
Appearance	White, Grey, Black
Consistency	Pasty

TEROSON MS 9120 SF is a 1-component sealant based on silane modified polymers which crosslinks (cures) to an elastic material by absorbing moisture from the air. 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 SF is free of solvents, isocyanates, silicones and PVC, and has a neutral odour. It adheres well to a great variety of substrates without the use of primer ans is aslo well compatible with overpainting using commercially available 1- or 2- component car repair paints. As long as the applied material is uncured, TEROSON MS 9120 SF is spotweldable. The sealant also demonstrates good UV resistance and can therefore be used for interior and exterior applications.

Application Areas:
TEROSON MS 9120 SF can be used for the following applications:
Seam and joint sealing in the following areas: vehicle repair, vehicle body and vehicle manufacture, railway waggon, container manufacture as well as for vehicle superstructure.
TEROSON MS 9120 SF is the ideal undercoat material for the sprayable seam sealant TEROSON MS 9320 SF.

TECHNICAL DATA

Colour:	white, grey, black
Odour:	almost not perceptible when completely cured
Consistency:	paste
Density, g/cm³	approx. 1.6
Curing mechanism:	humidity curing
Skin formation time (+23° C/50% RH), min*:	approx. 8
Cure rate, mm/24 hrs*:	approx. 5
Shore-A-hardness (DIN 53505):	approx. 50
Tensile strength (acc. to DIN 53504), MPa:	approx. 3
Elongation at break (acc. to DIN 53504),%:	approx. 250
Volume change (acc. to DIN 52451), %:	7
Application temperature, °C:	10 to 40
Paint compatibility:	Yes (see for: overpainting)
In service temperature range, °C:	-30 to 90
Short exposure (up to 1 h), °C:	120
* DIN 50014 standard climate:	23°C, 50% relative air humidity

DIRECTIONS FOR 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.

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 20 is suitable.

Application:
TEROSON MS 9120 SF 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 application. On cold substrates condensation water may form if the temperature drops below the dew point, what will also reduce adhesion.

Tip based on our practical experience:
With deep joints, TEROSON MS 9120 SF can be used as an

undercoat for the sprayable seam sealing material TEROSON MS 9320 SF which can be applied wet-on-wet to TEROSON MS 9120 SF.

Cleaning:
TEROSON VR 20 or TEROSON VR 40 is recommended for removing uncured TEROSON MS 9120 SF from application equipment. Cured material can only be removed mechanically.

Primer:
When primers are used (phosphate and 2-component epoxy resin primers are particularly suitable due to their doog corrosion protection and adhesion), these should be completely dry/have fully cured, before sealing or coating with TEROSON MS 9120 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 shoul ideally be applied before sealing or coating with TEROSON MS 9120 SF is carried out. If coating with a filler or primer filler shall be carried out only after TEROSON MS 9120 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 9120 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.

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

Storage:

Shelf life:

Frost-Sensitive	under certain conditions (may crystallize; reversible at 40°C)
Recommended storage temperature, °C	10 to 25
Shelf-life	12 months

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