

TEROSON® MS 700

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PRODUCT DESCRIPTION

TEROSON® MS 700 provides the following product characteristics:

Technology	MS Polymer
Chemical Type	Silane-modified polymer
Appearance (uncured)	White
Viscosity	Thixotropic paste
Cure	Moisture
Application	Bonding and Sealing
Application Temperature	+5 to +40°C
In service temperature	-30 to +80°C
Short exposure	+100°C
Specific Benefits	<ul style="list-style-type: none"> • Flextec® - Technology • Excellent elasticity • Very good sag resistance • Good paint compatibility • Good resistance to ageing and weathering • For interior and exterior use • Adhesion to a wide range of materials

TEROSON® MS 700 is a one component elastic adhesive/sealant based on MS polymer, which cures by reaction with humidity to an elastic and abrasion resistant product. 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 temperature as well as low humidity retards the process.

Typical applications include elastic bonding of metals and plastics e.g., side paneling and bonding of the roof skin in the vehicle and caravan manufacture. Elastic, interior and/or exterior seam and joint sealing in the following areas - vehicle body, railway carriage, container and general metal construction, photovoltaic panels, plastics, air-conditioning and ventilation industries.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Density @ 23°C, g/cm³	1.3
Sag resistance (DIN profile 15 mm)	No sagging
Cure rate @ 23°C/ 50% RH, mm/24 hrs.	1.7
Skin formation time @ 23°C/ 50% RH, min	20 to 30

TYPICAL PERFORMANCE OF CURED MATERIAL

Hardness, Shore A, ISO 868	~50
Tensile Strength, DIN EN 527, MPa	2
Elongation at break, DIN EN 527, %	250
Paint compatibility	In principle compatible
UV resistance	No signif. changes
UV Source	Q-Sun Xe-1 Xenon Test Chamber

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Direction For Use

Pre-Treatment:

The substrates must be clean, dry, oil- and grease free. Depending on the surface it can be necessary to roughen the surface or to use a primer/adhesion promoter to provide best adhesion. When manufacturing plastics, external release agents are often used; these agents must be absolutely removed prior to starting bonding or sealing. Due to the different compositions of paints, especially powder paints and the large number of different substrates, application trials before use are necessary. For cleaning, TEROSON® VR 10 or TEROSON® SB 450 from the Henkel portfolio are suitable. Especially for plastics and coatings - powder coatings - TEROSON® SB 450 has to be tested. When bonding and sealing PMMA, e.g. Plexiglas® and polycarbonate, e.g. Makrolon® or Lexan®, under tension, stress corrosion cracking may occur. Application trials before use are necessary. There is no adhesion to polyethylene, polypropylene and PTFE. Substrates not mentioned above should be subject to trials.

Application:

1. For best performance bond surfaces should be clean, dry and free from grease.
2. Moisture curing begins immediately after the product is exposed to the atmosphere, therefore parts to be assembled should be mated within a few minutes after the product is dispensed.

- High and low levels of relative humidity will have an impact on the cure speed.
- The bond should be allowed to cure (e.g., seven days), before subjecting to heavy service loads.

Cleaning:

- Excess uncured material can be easily wiped away with non-polar solvents.
- Cured material can only be removed mechanically.

Painting:

- After skin formation TEROSON® MS 700 can be painted with usual commercially available paints.
- Early overpainting does not inhibit curing but slows down the curing process.
- Overpainting should be carried out within 3 days max.
- Considering the great variety of paint systems available, sufficient trials should always be carried out to confirm suitability of our product.

Storage

Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

Optimal Storage: 10 to 25 °C. Storage below 10 °C or greater than 28 °C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

Approval and Certificate

Please contact your local Henkel representative for related approval or certificate of this product.

Data Ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23 °C / 50% RH = 23±2 °C / 50±5% RH

ADDITIONAL INFORMATION

Disclaimer

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.

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