

# Technical data sheet



Product: 9399

Manufacturer: HENKEL KGAA

Product group: KLEBSTOFF

Article group: 2-K KLEBSTOFF

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## TEROSON MS 9399

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Tewipack Uhl GmbH  
Industriestraße 15  
D-75382 Althengstett

Telephone:  
+49(0)7051/9297-0  
Fax:  
+49(0)7051/9297-99

E-Mail:  
info@tewipack.de  
Website:  
www.tewipack.de

Managing director:  
Alexander Uhl,  
Michael Uhl  
HRB 330424  
Amtsgericht  
Stuttgart

Bank details:  
Sparkasse  
Sindelfingen  
Pforzheim  
Calw  
BLZ 666 500  
85  
Konto 17 787

Commerzbank  
Sindelfingen  
BLZ 603 400 71  
Konto 8 001 166

Vereinigte  
Volksbank AG  
Böblingen  
BLZ 603 900 00  
Konto 80 089  
003

Postbank  
Stuttgart  
BLZ 600 100  
70  
Konto 146  
294 708

## TEROSON MS 9399

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### PRODUCT DESCRIPTION

TEROSON MS 9399 provides the following product characteristics:

<b>Technology</b>	Silane-modified polymer
<b>Product Type</b>	Adhesive/Sealant
<b>Components</b>	Two-component
<b>Cure</b>	Room temperature cure after mixing
<b>Application</b>	Assembly
<b>Appearance</b>	Component A: black, grey, white Component B: black, white Remark: A-component grey to be used with b-component white
<b>Consistency</b>	Pasty, Thixotropic
<b>Odor</b>	Characteristic
<b>Mix Ratio by volume:</b> Part A: Part B	1 : 1

TEROSON MS 9399 is a highly viscous, sag-resistant, two-component adhesive based on silane-modified polymers, which cures independently of the atmospheric moisture to an elastic product. It is free from solvents, isocyanates and silicones. TEROSON MS 9399 has good UV and weathering resistance and can be employed for bondings in indoor and outdoor uses.

### Application Areas:

TEROSON MS 9399 can be used for elastic bondings, for example in the caravan manufacture, in the railroad vehicle industry or in shipbuilding.

### TECHNICAL DATA

#### Component A

Density, white, grey, black, g/cm³: approx. 1.4

#### Component B

Component B, density, black, g/cm³: approx. 1.3

Component B, density, white, g/cm³: approx. 1.3

#### Mixture (Component A+B)

Density, black g/cm³: approx. 1.35

Density, white, grey, g/cm³: approx. 1.35

Sag resistance: in joints up to 15 mm (DIN profile)

Processing time/

Open time 23° C, min:

Black: approx. 30

White: approx. 20

Grey: approx. 20

Strength for further handling 23° C, h:

Black: approx. 2.5 to 3

Grey: approx. 1.5 to 2

White:	approx. 1.5 to 2
Shore-A-hardness (ISO 868, Durometer A)*:	approx. 55
Tensile strength (acc. to ISO 37), MPa:	approx. 3.0
Elongation at break (acc. to ISO 37, speed 200 mm/min)*, %:	approx. 150
Tensile shear strength (acc. to ISO 4587), MPa:	approx. 2 (1 mm thick sheet metal)
Substrates:	Al 99.5
Layer thickness, mm:	2
Cross head speed, mm/min:	10
UV resistance:	no signif. changes
UV source:	Osram Vitalux 300W, dry UV
Distance to the specimen, cm:	25
Test period, weeks:	6
Application temperature, °C:	15 to 40
In service temperature range, °C:	-40 to +100
Short exposure (up to 1 h), °C:	120
* ISO 291 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.

#### Pre-Treatment:

The adhesion surfaces must be clean, dry, oil and grease free. Depending on the surface it may be necessary to roughen the surface by mechanical means or to use a primer/adhesion promoter to provide best adhesion. For plastics surfaces we recommend the use of Teroson SB 450. 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. 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:**

TEROSON MS 9399 is contained in a 2 x 200 ml cartridge set (components A and B) which also contains a static mixer. To open the cartridges, the metal cap must be removed and the green plug pulled out. Now, the static mixer is screwed onto it. The cartridge set is then placed into the suitable compressed-air pistol. When the pistol handle is actuated, the material is pressed through the static mixer, whereby the two components are automatically mixed. The first 10 ml of the adhesive pass should be rejected, owing to the fact they may not have been mixed correctly. If the application of adhesive is interrupted for more than 5 minutes at 23° C, the static mixer should be replaced. Otherwise, the increase in viscosity could cause the static mixer to burst. At higher processing temperatures interruption times will decrease. TEROSON MS 9399 is applied directly to the substrate. For the processing equipment that we recommend, the processing pressure should not exceed 5 bars. The parts which are to be bonded must be joined within the specified processing time. Surplus material is to be removed immediately after application. Other packagings are available on request.

When processing from the 250 kg drum, the system must be depressurized during longer shutdowns without material removal (>1 h) to avoid material damage.

**Cleaning:**

For cleaning application equipment contaminated with uncured TEROSON MS 9399 we recommend the use of Cleaner+Diluent Teroson A, D or FL.

**Classification:**

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

- Hazards identification**
- Transport information**
- Regulatory information**

**Storage:**

Frost-Sensitive	No
Recommended storage temperature, °C	10 to 25
Shelf-life, months (depending on packaging)	9 to 12

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