

# **TEROSON MS 939 FR 2C**

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#### PRODUCT DESCRIPTION

TEROSON MS 939 FR 2C provides the following product characteristics:

Technology	Silane-modified polymer
Product Type	Adhesive/Sealant
Components	Two-component
Cure	Cure at ambient temperature
Application	Rail industry
Appearance	Component A: black
	Component B: white
Consistency	Pasty, Thixotropic
Odor	Characteristic
Mix Ratio, by volume - Part A: Part B	10:1

TEROSON MS 939 FR 2C is a high viscous, fire resistant, two-component adhesive based on silane modified polymers which cures to an elastic product. The material is free of solvents, isocyanates and silicones. After component A has been thoroughly mixed with component B the curing starts independent of humidity - to form an elastic material. In order to really make use of the advantage of elastic bonding, care should be taken of a sufficient dimensioning of the bonding joint. A minimum thickness is necessary so that the elastic adhesive is able to compensate the movements between the materials to be bonded under the influence of different temperatures during final use of the bonded part.

### **Application Areas:**

TEROSON MS 939 FR 2C designed for the rail manufacturing and repair industry and may cover following applications: Bonding of front and side windows, bonding of the floor panels, side paneling. Sealing of interior or exterior seams.

#### **TECHNICAL DATA**

Component A, density, g/cm<sup>3</sup>: approx. 1.45 Component B, density, g/cm<sup>3</sup>: approx. 1.3

#### Mixture (Component A+B)

Sag resistance:

no sagging (DIN profile 15 mm)

Pot life, min\*:

Open time, min\*:

Shore-A-hardness:
(ISO 868, Durometer A)

Tensile strength (acc. to ISO 37), MPa: approx. 3.5

Elongation at break (acc. to ISO 37, approx. 180

speed 200 mm/min),%:

Application temperature, °C: 5 to 40
In service temperature range, °C: -40 to +100

Short exposure (up to 1 h), °C: 120
\* ISO 291 standard climate: 23°C

23°C, 50% relative air

humidity

Fire resistance (acc. to EN 45545-2): R1 HL2 and R7

HL3

#### **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 substrates must be clean, dry, oil- and grease free. Cleaners Teroson PU 8550 or Teroson VR 10 are recommended for this. Depending on the surface it can be necessary to roughen the surface or to use a primer/adhesion promoter e.g. Teroson PU 8517 H or Teroson SB 450 to provide best adhesion. When manufacturing plastics, external release agents are often used; these agents must be accurately removed first. Due to the different compositions of paints, especially powder paints and the large number of different substrates, application trials before use are necessary.

#### Application:

TEROSON MS 939 FR 2C consists of two components A and B. By means of suitable application equipment, both A and B component are dosed in a ratio by volume of 10:1 and are homogenously mixed by use of static mixer shortly before application. 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. This can be avoided by bringing the sealant up to room temperature prior to application.

#### **Application Equipment:**

To apply the product correctly, a pneumatic hand gun e.g. 2693825 has to be used. Manual hand guns are not suitable for this product.



#### Storage:

Frost-Sensitive Nο Recommended storage temperature, °C 10 to 25

#### **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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