

## TEROSON MS 939 FR 2C

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### PRODUCT DESCRIPTION

TEROSON MS 939 FR 2C 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>	Cure at ambient temperature
<b>Application</b>	Rail industry
<b>Appearance</b>	Component A: black Component B: white
<b>Consistency</b>	Pasty, Thixotropic
<b>Odor</b>	Characteristic
<b>Mix Ratio, by volume - Part A: Part B</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\*: approx. 5  
Open time, min\*: approx. 40 to 45  
Shore-A-hardness: approx. 55  
(ISO 868, Durometer A)  
Tensile strength (acc. to ISO 37), MPa: approx. 3.5

Elongation at break (acc. to ISO 37, speed 200 mm/min),%: approx. 180  
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, 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 homogeneously 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 No  
 Recommended storage temperature, °C 10 to 25

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## Reference 2