

TEROSON EP 1432

December 2021

PRODUCT DESCRIPTION

Technology	Epoxy
Product Type	Body Stiffener Frame Stiffener
Additional Information	standard temperature curing low density expandable tacky

TEROSON EP 1432 is an expanding one component, high strength structural foam based on Epoxy. TEROSON EP 1432 is free of solvents and shows good adhesion to oily surfaces. The non cured material is resistant to washing and phosphating solutions in normal use in automotive industry and to electro dip painting. The final part gets its geometric shape i.e. by extrusion and cutting in combination with/without melting foil. The material shows no changes after passing the precure oven. TEROSON EP 1432 will cure while passing the EC-oven.

Application areas:

TEROSON EP 1432 must be applied as a preformed part in the body shop. The material increases stiffness, strength, fatigue limits and vibration behavior of vehicle bodies. The material is applied to oily steel panels.

TECHNICAL DATA

Uncured

Colour	dark grey
Consistency	plastic
Density at delivery	approx. 1.2 g/cm ³
Solids Content (3 h, 105 °C)	>99 %
Adhesion on oily panels	good

Cured

Recommended curing conditions:	
mini:	20 min 160°C
maxi:	60 min 190°C
Density after expansion	approx. 0.55 g/cm ³
Expansion	> 80 %
Tensile test (ISO 527-2)	
E-Modulus	> 800 MPa
Elongation at break	< 1 %
Poisson ratio	0.26
Compression test	
Compressive strength	18 MPa
Lap shear strength	
Substrates	galvanized steel

Bonding area	20 x 25 mm
Layer thickness	2 mm
Strength	> 2 MPa
Corrosion resistance	
Salt spray test (35 °C, salt solution 5 %, 500 hours)	no corrosion, no loss of adhesion
Corrosion test (VDA 621-415)	no corrosion, no loss of adhesion
Water absorption (24 h, 98 % humidity, 40 °C)	<0.5 % weight increase
In service temperature	-40 to 90 °C

DIRECTIONS FOR USE

Preliminary Statement:

Prior to use 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.

Application:

TEROSON EP 1432 interferes not with the process liquids and cavity waxes used. It is expanding in the EC- oven and is reinforcing car bodies. The material should be applied at room temperature (15-30°C). Remove the release paper abruptly, bring the part into desired position and eventually press it on with a roller. TEROSON EP 1432 should be left in the original packaging until ready to use.

Classification:

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

Hazards identification
Transport information
Regulatory information

Storage:

Frost sensitive	yes
Recommended Storage Temperature	5 to 25 °C
Shelf- life	6 months

ADDITIONAL INFORMATION

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