TEROSON

Technical Data Sheet

TEROSON EP 5010 TR

December 2020

PRODUCT DESCRIPTION

Technology	Epoxy Resin
Product type	Body rework, Rebuilding of Car Body Metal Surfaces
Additional Information	2-component lead free solvent free

TEROSON EP 5010 TR is a solvent free, two component, high strength levelling compound based on Epoxy Resins with low density. By heating up both components the chemical reaction will accelerate. TEROSON EP 5010 TR has been specially developed for body rework and for rebuilding of car body metal surfaces to substitute traditional tin soldering. It is free of isocyanate, silicones and lead. The product has no shrinkage and is excellent for grinding. TEROSON EP 5010 TR shows no sagging and has very good reshaping properties.

Application Areas:

The material is used as a plumb free tin-solder replacement to fill and smooth damages. TEROSON EP 5010 TR works on steel and also on aluminium.

TECHNICAL DATA

(Typical Test Results)

PART A	
Base	Epoxy Resin
Colour	dark grey
Odour	characteristic
Density	approx. 0.8 g/cm³
PART B	
Base	Amine
Colour	white/ light grey
Odour	of amines
Density	approx. 0.6 g/cm³
Mixing ratio A:B	
by volume	2:1
Mixture (PART A+B)	
Colour	grey
Odour	no smell after curing
Processing time	
at 23 °C, 50% RH	90 min(s)
Density (cured)	approx. 0.7 g/cm³
Water absorbtion	
24 hr(s) at 98 % rh and 40 °C	<0.5 % weigth gain
In service temperature	-40 to 90 °C

PRELIMINARY STATEMENT

Prior to use it is necessary to read the **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.

Pretreatment:

The surfaces must be dry and free of oil, grease and dust.
For pretreatment of the application area / surface use TEROSON VR 10.

Application:

TEROSON EP 5010 TR is processed from universal cartridges with manual application tools (dispenser driven by hand, air pressure or battery). Only use dispensers that are equipped with a piston rod. Insert the cartridge into a suitable application gun. Apply pressure to the cartridge to ensure a simultaneous and homogeneous flow of both components. Thereafter, clean the tip and attach the static mixer. To ensure proper mixing, discard the first approx. 5 cm of the adhesive bead. If material is left in the cartridge leave the static mixer attached. For further use of the product, simply remove the mixer and install a new one. Apply the levelling compound onto the repair area in a way that the area is sufficiently filled with excessive material. After curing excessive material is sanded back and sanding residues are removed. Thereafter clean the sanded parts with TEROSON VR 10. Further treatment (e.g. filling or painting) is executed according to the directions of the manufacturer. The use of fine filler is recommended. The material is not designed to be used on large repair areas at buses and coaches like side panels and roofs.

Curing:

TEROSON EP 5010 TR cures without additional exterior heat only by chemical reaction after mixing component A and B at room temperature. The development of reaction heat and consequently the curing time, are determined by the application temperature, layer thickness and the room temperature. Curing occurs at room temperature. For accelerated curing it is recommended to use a heat source. 60 °C object temperature for 60 minutes is recommended.

Cleaning:

Cured adhesive can only be removed mechanically. Fresh, uncured material can be removed with TEROSON VR 10.

Storage:

Frost sensitive	conditionally
Recommended storage temperature	15 to 25 °C
Shelf life	12 months in original packaging

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