

TEROSON EP 5010 TR

July 2014

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 modeling 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/cm ³
PART B	
Base	Amine
Colour	white/ light grey
Odour	of amines
Density	approx. 0.6 g/cm ³
Mixing ratio A:B by volume	2:1
Mixture (PART A+B)	
Colour	grey
Odour	no smell after curing
Potlife acc. to Bohlin (oscillating) at 20 °C	90 min(s)
at 30 °C	60 min(s)
Density (cured)	approx. 0.7 g/cm ³
Water absorption 24 hr(s) at 98 % rh and 40 °C	<0.5 % weight gain
In service temperature	-40 to 90 °C

PRELIMINARY STATEMENT

Prior to application 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 / VR 20. After pretreatment we recommend on bare steel or bare aluminium a surface conversion with BONDERITE M-NT 1455-W.

APPLICATION

TEROSON EP 5010 TR is processed from universal cartridges with manual application tools (guns driven by hand, air pressure or battery). Only use cartridge pistols 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. 10 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. (As described above.) 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 20. Further treatment (e.g. filling or painting) is executed according to the directions of the manufacturer. The use of fine filler is recommended.

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 20.

STORAGE

Frost sensitive	conditionally
Recommended	15 to 25 °C

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storage temperature	
Shelf life	12 months in original packaging

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