



TEROSON® EP 5089

High-Impact Structural Adhesive for a Wide Range of Steel Types

TEROSON EP 5089 is a one-component, high-performance, impact-resistant, solvent-free structural adhesive that is formulated using a toughened epoxy base.

Used in body shops for metal bonding, it provides improved impact resistance, stiffness and durability in the vehicle structure. It can be spot-welded through and exhibits excellent strength and corrosion resistance at extreme temperatures or after extensive aging and weathering.

**Henkel**

TEROSON EP 5089 is compatible with the most commonly used types of steel, including hot-dipped galvanized steel, cold-rolled steel and electro-galvanized steel. This material has been developed to adhere to a wide variety of clean or oily material surfaces.

KEY BENEFITS

- Improved energy absorption, rigidity and ride handling
- Increased passive safety by limiting intrusion into the passenger compartment
- Enhanced fatigue resistance and durability
- Reduced mechanical and heat-induced joints such as rivets and spot-welds
- Achieved fully cured physical properties at 155°C for 10 minutes; overcame heat-dispersing properties of aluminum with fully cured joints at 175°C in 25 minutes



FUNCTION	Structural bonding
FORMULATION	1K toughened epoxy, heat-cured
SUBSTRATE COMPATIBILITY	Good adhesion for pretreated galvanized/galvannealed steel, cold-rolled steel, zinc-aluminum-magnesium coated steel
APPLICATION	High-pressure pump from drum or pail, heat-cured
LAP SHEAR STRENGTH (ISO 4587) 2mm/DC04 at 23°C Cured at 175°C/25 minutes	32 MPa
IMPACT PEEL (ISO 11343)	>32 N/mm substrate CRS 1.0mm
E-MODULUS	>1,700 MPa
TENSILE STRENGTH	>30 MPa
ELONGATION AT BREAK	>8.5%

GET IN TOUCH WITH US

For more information on our Structural Adhesives as well as our other services along the automotive value chain, visit:

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