



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.



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:

www.henkel-adhesives.com

Or contact us directly at:

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