

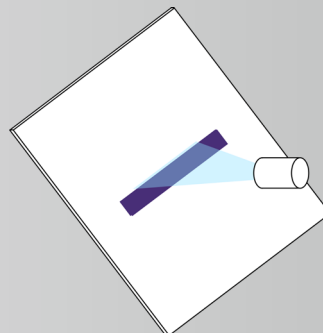
TEROSON® EP 5150

Solvent-Free, Universal High-Strength Structural Adhesive for Stress Durability in Multi-Metal Design

TEROSON EP 5150 structural adhesive is specially developed to provide high T-peel and impact peel resistance over a wide temperature range on steel, zinc-coated surfaces, zinc/magnesium surfaces and aluminum alloys where high strength and corrosion protection properties are required.

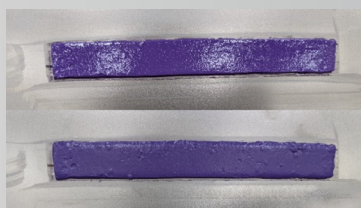
Due to its nanoparticles and toughened epoxy resins, TEROSON EP 5150 responds well to typical torsional and crash forces. It is particularly well-suited to aluminum-rich car bodies.

In the manufacturing process, it is easy to work with due to its 1K formulation and special viscosity, which make it wash-off resistant in all common automotive pretreatment lines.



Wash-off test conditions:

- \dot{v} = 11.4 L/min spray
- u = 5 m/s (deluge)
- T_{H_2O} = 60°C
- Nozzle distance = 150 mm
- Jet spray = 1/2 GG-25
- Fan just over bead



±1 mm of movement

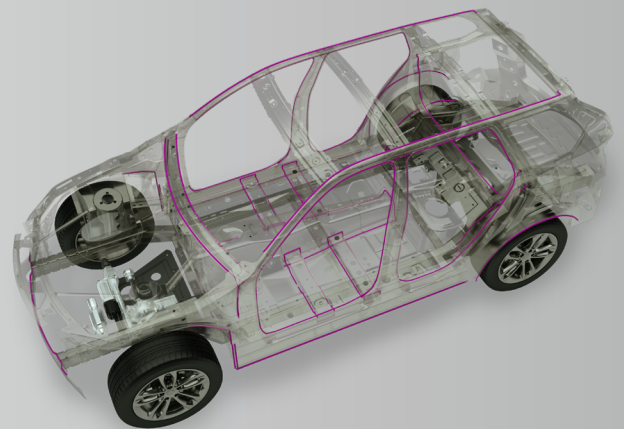
Post-test validations include oil resistance, surface wetting and adhesive yield stress



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

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, aluminum alloys
APPLICATION	High-pressure pump from drum or pail
LAP SHEAR STRENGTH (ISO 4587) 2mm/DC04 at 23°C Cured at 175°C/25 minutes	30 MPa
IMPACT PEEL (ISO 11343)	>45 N/mm substrate CRS 1.0mm
E-MODULUS	>1,800 MPa
TENSILE STRENGTH	>34 MPa
ELONGATION AT BREAK	>12%



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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