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BETAMATE™ 7165

Structural Adhesive



BETAMATE™ 7165 is a one component glass bead containing epoxy based adhesive especially developed for body shop bonding applications. The adhesive is used in the design to increase operational durability, crash performance and body stiffness of the vehicle.

Benefits & Features

BETAMATE™ 7165 displays robust adhesion to metal substrates, such as untreated aluminum, pretreated aluminum, and oily steel, in a variety of structural bonding applications. BETAMATE™ 7165 provides excellent joint durability under stress, high lap shear strength, and high peel strength. BETAMATE™ 7165 is toughened to enable crash energy management in the body structure design. BETAMATE™ 7165 provides high joint fatigue durability and corrosion protection of metal and weld points due to its inherent sealing capability.

BETAMATE™ 7165 is compatible with robotic dispense applications, electrocoating processes, and other joining methods (welding, riveting, etc.). Typical applications include bonding of the vehicle body structure and other metal-to-metal joining applications.

Uncured Properties	Nominal Value Unit	Test Method
Color	Black	-
Density	1.26 g/mL	ASTM D816
Viscosity at 25 °C	240 Pa·s	Casson
Cured Properties		
Lap Shear Strength, 2.0mm 5754 Al	>18 MPa	SAE J1523
Lap Shear Strength, 1.6 mm CRS	>23 MPa	SAE J1523
Peel Strength, 2.0mm 5754 Al	> 8 N/mm	ASTM D1876
Tensile Modulus	2000-2200 MPa	ASTM D638
Elongation at Break	6%	ASTM D638

Application Technique

BETAMATE™ 7165 is fully compatible with robotic dispensing methods such as swirl, stream, and bead applications.

Packaging

BETAMATE™ 7165 is available in 55-gallon drums, 5 gallon pails or 10.5 oz cartridges.

Storage & Stability

Shelf life is dependent upon storage temperatures of the material. Under optimal storage conditions, BETAMATE™ 7165 is shelf stable for up to 6 months or greater.