



ADVANCED ADHESION INC.

MARKET-READY ADHESIVE FORMULATIONS

Technical Bulletin Mr. Sticky's® Poly-Bonder

Date Issued: 04/01/04 iPropBulPolyBonder
Patent Pending

Description

Mr. Sticky's® PolyBonder is a flexible, toughened, non-corrosive, structural adhesive specially designed for various applications and substrates, including bonding of Polyethylene*, Polypropylene*, ABS, PVC, ceramics and cement. It has been formulated for superior exterior performance, gap filling, impact and fatigue resistance. It's toughness, imparted by flexibility, causes the energy required to break a bond to be significantly higher than brittle epoxies. Lap Shear Psi, plus high break-energy Psi afford bonds strength/resiliency. *Bond results to Polyethylene and Polypropylene after executing AAI's flame-treating instructions.

Typical Properties

Mixed Color	-----	White
Thixotrophy	-----	Non-sagging gel
Elongation (%)	-----	100+
% Solids (by Volume)	-----	100
Viscosity (@ R.T., cps)	-----	(Resin 245,000) (Hardener 178,000) cps
Density (gr./cc)		
Resin	-----	1.25
Hardener	-----	0.99
Mixing Ratio		
(PBW)	-----	1.27:1
(PBV)	-----	1:1
Working Time (7 gr. Min)	-----	15-30
Cure Cycle (at 23°C)		
Handling Time	-----	1-2 hours
Functional Cure	-----	24 hours
Full Cure	-----	7 days
Tensile Strength (Psi)	-----	1,150+
Lap Shear (Psi)		
ABS	-----	800+
Aluminum	-----	1,000+
Ceramic (compressive shear)	-----	1,500+
Cold Rolled Steel	-----	1,500+
Concrete (compressive shear)	-----	2,000+
Copper	-----	1,000+
Fiberglass gel coat	-----	1,000+
Low Density Polyethylene (PE)	-----	500+
High Density Polyethylene (HDPE)	-----	2,000+
Polypropylene	-----	1,500+
PVC	-----	1,400+
Flexural Modulus (Psi)	-----	8,000+

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