



ADVANCED ADHESION INC.

MARKET-READY ADHESIVE FORMULATIONS

Technical Bulletin Mr. Sticky's® Underwater Glue

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Patent Pending

Description

Mr. Sticky's® Underwater Glue is a flexible, toughened, non-corrosive, structural adhesive specially designed for various applications and substrates, including wet or dry bonding of ABS, PVC, flexible PVC, CRS, composites, wood and cement. It has been formulated for superior peel, 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.

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)	1,200+
Lap Shear (Psi)	
ABS	800+
Abraded ABS	800+
Acrylic	450+
Aluminum	1,000+
Ceramic (compressive shear)	1,600+
CRS	1,500+
Concrete (compressive shear)	2,000+
Copper	1,200+
Fiberglass gel coat	1,000+
Fiberglass resin	1,500+
Glass (compressive shear)	1,600+
PETG	600+
PVC	1,100+
Flexural Modulus (Psi)	8,800+