

Physical Properties	Magic Bond™ Epoxy Putty	Zip Patch™	Underwater Repair Putty (UW)
<b>Color</b>	Light Grey	Brown	Grey
<b>Mix ratio by weight / volume</b> (resin:hardener)	N / A	N / A	1.4:1 / 1:1
<b>Mixed viscosity</b> cps	Putty	17,000	Putty
<b>Functional cure</b> hours	1	1	24
<b>Pot life</b> minutes @ 75 °F	20	5	45
<b>Specific volume</b> inches <sup>3</sup> /pound	15.3	N / A	17.0
<b>Coverage per pound</b> inches <sup>3</sup> @ 1/4" thickness	61	N / A	68
<b>Cured hardness (ASTM D2240)</b> Shore D	83	70	82
<b>Cured shrinkage (ASTM D2566)</b> inch/inch	0.0030	0.0010	0.0020
<b>Adhesive tensile shear (ASTM D1002)</b> psi	920	2,400	2,685
<b>Tensile strength (ASTM D638)</b> psi	2,450	10,000	2,760
<b>Compressive strength (ASTM D695)</b> psi	12,000	N / A	5,625
<b>Flexural strength (ASTM D790)</b> psi	4,280	19,000	4,990
<b>Modulus of elasticity (ASTM D638)</b> psi x 10 <sup>5</sup>	7.0	2.9	7.5
<b>Coefficient of thermal expansion (ASTM D696)</b> [(in)/(in x °F)] x 10 <sup>-6</sup>	21	64	18
<b>Thermal conductivity (ASTM C177)</b> [(cal x cm)/(sec x cm <sup>2</sup> x °C)] x 10 <sup>-5</sup>	1.24	1.71	1.41
<b>Dielectric constant (ASTM D150 )</b> 1 KHz	28.1	43.5	8.6
<b>Dielectric strength (ASTM D149 )</b> volts/mil	300	250	150
<b>Maximum continuous service temperature</b> °F dry	250	200	250

Key: ● Excellent ◐ Very Good ○ Fair ⊖ Poor

Chemical Resistance	Magic Bond™ Epoxy Putty	Zip Patch™	Underwater Repair Putty (UW)
<b>ACIDS</b>			
Acetic 10%	⊖	⊖	⊖
Hydrochloric 10%	○	◐	○
Sulfuric 10%	○	◐	○
<b>ALCOHOLS</b>			
Methanol	⊖	⊖	⊖
Isopropanol	⊖	⊖	⊖
<b>KETONES</b>			
Acetone	⊖	○	⊖
Methyl ethyl ketone	⊖	○	⊖
<b>ALKALIS</b>			
Ammonium hydroxide 20%	◐	⊖	◐
Sodium hydroxide 10%	◐	⊖	◐
<b>HYDROCARBONS</b>			
Gasoline (unleaded)	◐	◐	◐
Mineral spirits	◐	⊖	◐
<b>CHLORINATED HYDROCARBONS</b>			
Perchloroethylene	○	⊖	◐
1-1-1 Trichloroethane	○	⊖	◐
<b>SALTS</b>			
Sodium chloride	○	○	◐
Trisodium phosphate	○	○	◐