

# Mr. Sticky's™ Underwater Glue

## Product Comparison

| Properties                | Mr. Sticky's™ Underwater Glue | Typical Epoxy Glue | Typical Epoxy Paste | Typical Epoxy Putty | Comments   |
|---------------------------|-------------------------------|--------------------|---------------------|---------------------|--|
| <b>Flexibility</b>        | 30%                           | 1-4%               | 1-4%                | 1-4%                | Flexibility (elongation) is a stretch test. Mr. Sticky's™ can stretch 7-30 times more vs. typical epoxy. |
| <b>Shock Dampening</b>    | Very Good                     | Poor/Brittle       | Poor/Brittle        | Poor/Brittle        | Brittle bonds fail if subjected to thermal or mechanical shock.  |
| <b>Flexible Bonds</b>     | Very Good                     | Poor/Brittle       | Poor/Brittle        | Poor/Brittle        | Inflatable boat repairs need significant bond flexibility.   |
| <b>Underwater</b>         | -                             | -                  | -                   | -                   | -  |
| <b>Tackiness</b>          | Very Tacky                    | Not tacky          | Limited Tack        | Limited Tack        | A molecular interaction force displaces water away.  |
| -                         | (easily applied)              | (floats away)      | (Mech.Bond)         | (Mech. Bond)        | Mechanical bonds hold by surrounding object, then harden.  |
| <b>Curing</b>             | Yes                           | Varies             | Varies              | Varies              | Some Epoxies cure underwater, most don't bond underwater.  |
| <b>Adhering</b>           | Yes                           | No                 | No                  | (Mech. Bond)        | No other adhesive bonds if applied underwater without mechanical bond.                                   |
| <b>PVC Pipe Fittings</b>  | Tested to 1400 psi            | No                 | No                  | No                  | Flexibility and PVC bond required for successful pipe joints.  |
| <b>Fix under Pressure</b> | No                            | No                 | No                  | Possibly            | Liquid glues must harden before water pressure is active.  |
| <b>Waterproof</b>         | Yes                           | Varies             | Yes                 | Yes                 |  |
| <b>PVC Bond</b>           | -                             | -                  | -                   | -                   | -  |
| <b>Shear</b>              | 1800 psi                      | Limited            | Limited             | Limited             | PVC is difficult to bond, (note: PVC cement melts, not bonds.)   |
| <b>180° Peel (T-peel)</b> | 40 lbs./in                    | Poor (< 5 lb.)     | Poor (< 5 lb.)      | Poor (< 5 lb.)      | "Peel" tests flexible PVC Bonds like inflatables or pool liners.   |
| <b>PVC bond to other</b>  | Very Good                     | Limited            | Limited             | Limited             | Few glues can strongly bond PVC to other materials.  |
| <b>Application</b>        | -                             | -                  | -                   | -                   | -  |
| <b>Working Time</b>       | 30-60 minutes                 | Varies             | Varies              | Varies              | 30-60 min working time enhances even bonding on large projects.  |
| <b>Handling Time</b>      | 3-4 hours                     | Varies             | Varies              | Varies              |  |
| <b>Cure for service</b>   | 24 Hours                      | Varies             | Varies              | Varies              |  |
| <b>Full Cure</b>          | 7 Days                        | Varies             | Varies              | Varies              | Allow more time for difficult materials to bond strongly.  |
| <b>Application Temp.</b>  | 40-100°F (4-38C)              | Varies             | Varies              | Varies              |  |
| <b>Max Temperature</b>    | 200°F (93C)                   | Varies             | Varies              | Varies              | Working part surface temperature should be below 200°F (93C)   |
| <b>Min Temperature</b>    | No Minimum                    | No Data            | No Data             | No Data             | After application/curing, bonds withstand extremely low temps.   |
| <b>Clean Uncured Glue</b> | Rubbing Alcohol               | Varies             | Varies              | Varies              |  |
| <b>Clean Cured Glue</b>   | Mechanical Removal            | Difficult          | Difficult           | Difficult           |  |
| <b>Toxicity</b>           | None after cure               | None after cure    | None after cure     | None after cure     | Extreme bond strength requires mechanical removal after cure.  |

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