



## H2O Glue®

**Description:** Toughened structural adhesive, after curing, produces superior strength to load-bearing bonds to engineered plastics.

**Intended Use:** Bond: PVC, fiberglass, ABS, FRT, PBT, PPO, PCBB, Metton®, Lomod®, Valox®, Noryl®, GTX, Minlon®, epoxy, RM urethane, wood, poorly prepared surfaces, and where outdoor weathering or solvent exposure is anticipated.

**Product features:**  
 Minimal surface preparation  
 Room temperature cure  
 1:1 mix ratio  
 Rapid fixture in thin set  
 Non-sagging formula

**Limitations:**

**Typical Physical Properties:** *Technical data should be considered representative or typical only and should not be used for specification purposes*

**Cured 7 days @ 75°F**

<b>Adhesive Tensile Lap Shear[ABS]</b>	<b>1,300 psi</b>
<b>Adhesive Tensile Lap Shear[GBS]</b>	<b>3,500 psi</b>
<b>Adhesive Tensile Lap Shear[Polycarb]</b>	<b>1,400 psi</b>
<b>Gap Fill</b>	<b>0.125 in.</b>
<b>Impact Resistance</b>	<b>22 ft.lb./in.[2]</b>
<b>Service Temperature</b>	<b>-67°F to 250°F</b>
<b>Shore Hardness</b>	<b>78 Shore D</b>
<b>Solids by Volume</b>	<b>100</b>
<b>Specific Volume</b>	<b>28.1 in[3]/lb.</b>
<b>Tensile Elongation</b>	<b>15-25%</b>
<b>Tpeel</b>	<b>35-40 pli</b>

**TESTS CONDUCTED**

Impact Resistance ASTM D 950  
 T-Peel Strength ASTM D 1876  
 Cured Hardness Shore D ASTM D 2240  
 Adhesive Tensile Shear ASTM D 1002

**Uncured**

<b>Cdor</b>	<b>Straw</b>
<b>Fixture Time</b>	<b>10-15 min. @72F, 22C</b>
<b>Flashpoint</b>	<b>51F</b>
<b>Full Cure</b>	<b>24 hrs.</b>
<b>Functional Cure</b>	<b>3/4 - 1 hr.</b>
<b>Mix Ratio by Volume</b>	<b>1:1</b>
<b>Mix Ratio by Weight</b>	<b>1:1</b>
<b>Mixed Density</b>	<b>8.20lbs./gal. / .98gm/cc</b>
<b>Mixed Viscosity</b>	<b>50,000 cps</b>
<b>Viscosity</b>	<b>Adhesive:55,000 cps; Activator: 50,000 cps</b>
<b>Weight</b>	<b>Adhesive:8.4 lbs/gal.; Activator: 8.00 lbs/gal.</b>
<b>Working Time</b>	<b>4-6 min. @ 72°F,</b>

**Surface Preparation:** Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and optimize the bond strength.

**Mixing Instructions:** --- Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths. ---

- 25 ML TUBE
- Squeeze material into a small container the size of an ashtray.
  - Using mixing stick included on Dev-tube handle, vigorously mix components for one (1) minute.
  - Immediately apply to substrate.

- 35 ML/50 ML/250 ML/380 ML/400 ML CARTRIDGES
- Attach cartridge to Mark V™ [50ml], 380ml, 250ml [15:1 caulk gun], or 400ml dispensing systems [manual or pneumatic].

2. Open tip.
3. Burp cartridge by squeezing out some material until both sides are uniform (ensures no air bubbles are present during mixing).
4. Attach mix nozzle to end of cartridge.
5. Apply to substrate.

**Application Instructions:**

1. Apply mixed product directly to one surface in an even film or as a bead.
2. Assemble with mating part within recommended working time.
3. Apply firm pressure between mating parts to minimize any gap and ensure good contact, (a small fillet of product should flow out the edges to display adequate gap fill.)
4. Bond line thickness of mixed adhesive should be @ .015"-.030" for optimum adhesion.

For very large gaps:

1. Apply product to both surfaces.
2. Spread to cover entire area OR make a bead pattern to allow flow throughout the joint.

Let bonded assemblies stand for recommended functional cure time prior to handling.

**CAPABILITIES:**

Can withstand processing forces  
Do not drop, shock load, or heavily load

**Storage:**

Store between 55F and 75F. Continuous storage above 75F reduces the shelf life of the materials. Prolonged exposure above 100F quickly diminishes the product's reactivity, and should be avoided. Shelf life can be extended by refrigeration between 45F and 55F. DO NOT FREEZE.

**Compliances:**

Meets UL 746C Polymeric Adhesive Systems, Electrical Equipment-Component

**Chemical Resistance:**

*Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @75F*

Acetic (Dilute) 10%	Excellent	Sulfuric 10%	Excellent
Ammonia	Very good		
Cutting Oil	Excellent		
Glycols/Antifreeze	Excellent		
Hydrochloric 10%	Fair		
Mineral Spirits	Excellent		
Motor Oil	Excellent		
Sodium Hydroxide 10%	Very good		

**Precautions:**

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

**For technical assistance, please call 800.220.1966**

**FOR INDUSTRIAL USE ONLY**

**Warranty:**

Chemical Concepts will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

**Disclaimer:**

All information on this data sheet is based on laboratory testing and is not intended for design purposes. Chemical Concepts, Inc makes no representations or warranties of any kind concerning this data.

**Order Information:**

14320 47 ml cartridge  
14300 25 ml Dev-Tube™  
14385 400 ml cartridge  
DA033/034 10 gal kit  
DA309/307 100 gal kit  
14330 2 liter kit



chemical-concepts.com

**800.220.1966**

410 Pike Road • Huntingdon Valley, PA 19006