TECHNICAL DATA SHEET



435 Harrison Street, Elkhart, IN 46516-2717 Ph: 833-BIG-DOGG (833-244-3644)

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BD5615WH Structural Methacrylate

Adhesive

1. DESCRIPTION

BD5615WH is a two-part methacrylate, structural bonding adhesive designed for the structural bonding of various substrates, including PVC, ABS, Steel, Aluminum, and various other plastics, Combined at a ratio of 1:1, BD5615WH has a working time of 15 minutes and achieves nearly 90 percent of its ultimate strength in 40 minutes at room temperature curing. BD5615WH provides high strength bonds to the above reference surfaces with generally no preparation effort. BD5615WH bonds strongly in wide variety of metals and plastics. This product is highly recommended for bonding PVC Trims. BD5615WH adhesives are UV STABLE.

Company Identification: Big Dog Adhesives LLC.

435 Harrison Street Elkhart, IN 46516-2717 Toll-free: 833-BIG-DOGG (833-244-3644) Fax: 833-BIG-DOGZ (833-244-3649) www.bigdogadhesives.com sales@bigdogadhesives.com Website:

2. CHARACTERISTICS:

Room Temperature Cure

Working Time •

- **Fixture Time** •
- Can be Moved In •
- Operating Temp. .
- Gap Filling
- Mixed Density
- Flash Point

3. CHEMICAL RESISTANCE:

Excellent Resistance to:

Susceptible to: **Polar Solvents**

- Hydrocarbons • •
 - Acids and Bases
- Vinegar
- Wine and Condiments

4. PHYSICAL PROPERTIES:

Uncured: •

Resin	
40,000 - 90,	000

- Color •
- Density (lbs/gal)

Viscosity(cps)

- Mix Ratio (wt or vol) .
- WHITE 1.2
- 1.0 1.0

MFQ 08-24T - Square 24 element White/Green Mix Tips (1:1)

Activator

Straw

9

70,000 - 100,000

- Mixer Recommendation Cartridge (200/400ml):
- 5. MECHANICAL PROPERTIES:

- **Properties** 12 to 18 minutes (at 75°F/ 24°C)
- 30 to 40 minutes (at 75°F/ 24°C)
- 40 minutes
- -40°F to 180°F (-40°C to 121°C)

Super Strong Acids and Bases

- .375 inches
- 51°F (11°C) See SDS for more safety information
- 8.1 lbs/gal (.96 g/cc)



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Steel/Stainless Steel

Aluminum

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Tensile Strength (ASTM D638)	Substrate	Results
 Strength, psi 	Fiberglass Surfaces	2,500+
 Strength, psi 	ABS/PVC Sheeting	1,000+

 Results
 Failure Type

 2,500+
 Substrate

 1,000+
 Substrate

 2,500 - 3,500
 Cohesive

 2,500 - 3,500
 Cohesive

6. HANDLING AND APPLICATION:

Strength, psi

Strength, psi

BD5615WH resin (Part A) and activator (Part B) are flammable. Contents include Methacrylate ester and acids. Keep containers closed after use. Wear gloves and safety glasses to avoid skin and eye contact. Wash with soap and water after skin contact. In case of eye contact, flush with water for 15 minutes and get medical attention. Harmful if swallowed. Keep out of the reach of children. Keep away from heat, sparks, and open flames. Do not smoke cigarettes or anything else while handling or near the product. Refer to the BD5615WH Safety Data Sheet for more complete safety instruction. To assure maximum bond strength, surfaces must be mated together within the specified working time, and all clamps affixed within that time. Use sufficient material to ensure that the joint is completely filled when parts are mated and clamped. Avoid over clamping parts, which may cause a dry joint or a joint starved of adhesive. All adhesive application, part positioning, fixturing, and clamping should occur before the working time of the adhesive has expired. After the indicated working time, parts must remain undisturbed until the fixture time is completed. Components bonded, adhesive, and shop temperature can have a significant effect on the work and fixture time of the adhesive. Application of BD5615WH adhesive at temperatures between 65°F and 85°F (18°C and 30°C) will ensure proper cure. Temperatures below 65°F (18°C) will slow cure and fixture speed. BD5615WH adhesives will still react, but will take longer. Temperatures above 85°F (18°C and 30°C) will increase cure and fixture speeds, and there's a risk that the adhesive will be hardened or too thick to bond materials. The viscosities of BD5615WH adhesives are affected by temperature.

NOTE: Because of the curing features of BD5615WH adhesive, large amounts of heat are generated when large masses of material are mixed at one time. The heat generated by the exotherm resulting from mixing large amounts of adhesive can result in a boiling of the monomer in the adhesive (methyl methacrylate), resulting in the release of trapped air, steam and volatile gasses. To prevent this, use only enough material as needed for use within the working time for the product, and confine the gap or spread out the material to no more than .50 inches.

7. HANDLING AND STORAGE

The shelf life of BD5615WH is twelve (12) months from the date of manufacture based upon continuous storage at room temperature (77°F or 25°C). Storage of BD5615WH adhesives in refrigerated compartments will extend the shelf life even more. Do not store BD5615WHadhesive or any other adhesives in a refrigerator which has food or lunch products in them. Be sure to bring BD5615WHadhesives to room temperature for 24 hours before use, otherwise longer cure and fixture times may be expected. Long-term storage at temperatures above room temperature will shorten the shelf life of BD5615WH adhesives considerably. Storage at temperatures above 100°F or 38°C could shorten the shelf life to less than one month. BD5615WHadhesives contain no water, so freezing of the adhesive for short periods is permissible, but is not encouraged.

8. ADDITIONAL INFORMATION

NOTE: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. The Company shall not be liable for any injury, loss, or damage in the use or handling of its chemical products since conditions and use are beyond our control. In every case, we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and suitability for their particular purpose under their own operating conditions. Statements concerning possible use of our products are not intended as recommendations to use our products in the infringement of any patent, or for any particular purpose or application. These products are intended for industrial use only.