

# **TECHNICAL DATA SHEET**

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# BD7015 Low Surface Energy Plastic Bonding Structural Adhesive

#### 1. DESCRIPTION

BD7015 is a two-part 1:1 mix ratio methacrylate, medium open time structural adhesive specifically formulated for bonding low surface energy plastics such as polyethylene and polypropylene. BD7015 features a 15 minute open time enabling larger structures to be assembled compared to traditional low surface energy bonding methacrylate adhesives. BD7015 comes preblended with 10mil glass beads to ensure a consistent bond-line in applications.

Company Identification: Big Dog Adhesives LLC.

615 S 4th Street Elkhart, IN 46516-2717

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### 2. CHARACTERISTICS:

Room Temperature Cure Properties

Working Time
 Fixture Time
 12 to 18 minutes (at 75°F/ 24°C)
 120 to 240 minutes (at 75°F/ 24°C)

• Can be Moved In 240 minutes

Dispensing Temp.
 65°F to 85°F (18°C to 30°C)

Flash Point 51°F (11°C) – See SDS for more safety information

## 3. PHYSICAL PROPERTIES:

 Uncured:
 Resin
 Activator

 • Viscosity(cps)
 100,000 − 200,000
 70,000 to 150,000

 • Color
 Natural
 Amber

Mix Ratio (wt or vol) 1.0 1.0

## 4. MECHANICAL PROPERTIES:

Shear Strength

Substrate

Results

Failure Type

>1000

Cohesive

### 5. HANDLING AND APPLICATION:

**BD7015** 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 BD7015 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



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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 BD7015 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. BD7015 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 BD7015 adhesives are affected by temperature.

#### 6. HANDLING AND STORAGE

The shelf life of BD7015 is six (6) months from the date of manufacture based upon continuous storage at room temperature (77°F or 25°C). Storage of BD7015 adhesives in refrigerated compartments will extend the shelf life even more. Do not store BD7015 adhesive or any other adhesives in a refrigerator which has food or lunch products in them. Be sure to bring BD7015 adhesives 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 BD7015 adhesives considerably. Storage at temperatures above 95°F or 35°C could shorten the shelf life to less than one month.

# 7. 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.