



## Acrylic DRIPLESS Seaming Adhesive

### 1. DESCRIPTION

SeamLockPRO is a two-part methacrylate, DRIPLESS seaming adhesive designed for the Inconspicuous bonding of various substrates, including solid surface (acrylic, polyester and blended products), granite, engineered stone, quartz, marble, cultured marble, glass, sintered stone, porcelain, and various plastics (not low energy surfaces). Combined at a ratio of 10:1, SeamLockPRO has a working time of 8 to 12 minutes and achieves nearly 90 percent of its ultimate strength in 20 to 25 minutes at room temperature curing. SeamLockPRO provides high strength bonds to the above reference surfaces with generally no preparation effort. SeamLockPRO adhesives are UV STABLE, AND WILL NOT YELLOW OVER TIME.

**Company Identification: Big Dog Adhesives LLC.**

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### 2. CHARACTERISTICS:

**Room Temperature Cure**

- |                       |   |
|-----------------------|---|
| • Working Time        | 8 to 12 minutes (at 75°F/ 24°C)                   |
| • Fixture Time        | 20 to 25 minutes (at 75°F/ 24°C)                  |
| • Can be Moved In     | 30 minutes  |
| • Operating Temp.     | 65°F to 85°F (18°C to 30°C)                       |
| • Gap Filling         | .250 inches                                       |
| • Mixed Density       | 8.1 lbs./gal (.96 g/cc)                           |
| • Flash Point         | 51°F (11°C) – See SDS for more safety information |
| • Service Temperature | -30°F to 250°F                                    |

**Properties**

### 3. CHEMICAL RESISTANCE:

**Excellent Resistance to:**

- Hydrocarbons
- Acids and Bases
- Vinegar
- Wine and Condiments
- Most Household Foods

**Susceptible to:**

- Polar Solvents
- Super Strong Acids and Bases

**Excellent Resistance to:**

- Boiling / Warm Water
- Salted / Chlorinated Water
- Freezing / Cold Water

### 4. PHYSICAL PROPERTIES:

**Uncured:**

- |   |                            |                                      |
|---|----------------------------|--------------------------------------|
| • Viscosity(cps)                              | 40,000 – 100,000           | <b>Activator</b><br>10,000 to 30,000 |
| • Color                                       | Various                    | Clear                                |
| • Density (lbs./gal)                          | 8.2                        | 8.0                                  |
| • Mix Ratio (wt. or vol)                      | 10.0                       | 1.0                                  |
| • Mixer Recommendation Cartridge (250/500ml): | MFQX 08-24T – Green/Orange | 10:1                                 |

- Mixer Recommendation Cartridge (50ml):

MBQX 05-24T – Pink/Gray 10:1 Tips

## **5. MECHANICAL PROPERTIES:**

<b>Tensile Strength (ASTM D638)</b>	<b>Substrate</b>	<b>Results</b>	<b>Failure Type</b>
<ul style="list-style-type: none"><li>• Strength, psi</li></ul>	Fiberglass Surfaces	2,500+	Substrate
<ul style="list-style-type: none"><li>• Strength, psi</li></ul>	Acrylic Sheeting	1,000+	Substrate
<ul style="list-style-type: none"><li>• Strength, psi</li></ul>	Polycarbonate Sheeting	1,000+	Substrate

## **6. HANDLING AND APPLICATION:**

**SeamLockPRO** 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 SeamLockPRO 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 SeamLockPRO 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. SeamLockPRO 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 SeamLockPRO adhesives are affected by temperature.

**NOTE:** Because of the curing features of SeamLockPRO adhesives, 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 SeamLockPRO is twelve (12) months from the date of manufacture based upon continuous storage at room temperature (77°F or 25°C). Storage of SEAMLOCKPRO adhesives in refrigerated compartments will extend the shelf life even more. Do not store SEAMLOCKPRO adhesive or any other adhesives in a refrigerator which has food or lunch products in them. Be sure to bring SEAMLOCKPRO 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 SEAMLOCKPRO adhesives considerably. Storage at temperatures above 100°F or 38°C could shorten the shelf life to less than one month. SEAMLOCKPRO adhesives 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



# TECHNICAL DATA SHEET

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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.

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