

AE310 Structural Adhesive

**Versatile, Fast-Curing, General Purpose
Methacrylate Adhesive**

Forms tough, durable bonds to a wide range of materials, including plastics, composites, metals, ceramics, and other substrates, without the need for special primers.

Applications in industrial markets including automotive, signage, HVAC, manufacturing, marine, construction, aerospace, and more!



Convenient 1:1 Mix Ratio
Bonds Diverse Substrates
No Primer Required
No Surface Preparation Required
Easy Application
Room Temperature Cure
Good Chemical Resistance
Gap Filling to 0.125 Inches
Up to 12 Minutes Working Time

*Made in the USA by
Adhesive Engineering, a division
of Barker Industrial Group.*

Designed for High-Speed Manufacturing Processes Requiring Quick Fixture without the Need for Special Primers

AE310 is a 1:1 meter-mix, methacrylate-based structural adhesive designed for general-purpose bonding of a wide variety of materials in industrial applications. It forms tough, durable bonds to most plastics, composites, metals, ceramics, and other durable substrates in all combinations, without the need for special primers. In almost all cases, surface cleaning or preparation is not required.

20 Minute Fix Time for Fast Bonding

AE310 is a fast-curing product with a 12-minute open time and achieves fixture within 20 minutes at room temperature. This cure time is specifically designed for manufacturing processes where quick fixture is essential.

Easy Application

AE310 is easily dispensed from packaged cartridges or with commercial dispensing equipment as a non-sag, creamy gel, with no stringing. It is designed for use with static mixer tubes, with both components having a balanced viscosity for easy mixing.

APPLICATION INSTRUCTIONS

For Industrial Use Only

Do not freeze. Store between 55°F – 75°F.

Warning

This product can expose you to chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, visit www.p65warnings.ca.gov.

Before Use

Refer to the SDS for all handling and safety precautions.

Directions for Use

A compatible cartridge gun or cartridge applicator is required to dispense these adhesive cartridges.

1. To open cartridges, simply remove the retaining nut and nose plug.
2. Place cartridge into applicator gun and dispense a small amount of adhesive until the two pistons are level or equalized.
3. Affix static mixer using the retaining nut to securely fasten mixer onto cartridge.
4. Apply the adhesive to the substrate, making sure to use enough material to completely fill the joint.
5. Mate the surfaces within the specified working time to ensure maximum bond strength.
6. Secure the parts in position until the adhesive achieves sufficient bond strength.

Preserving Unused Product

Replace the dual plug and secure it with the cap.

Disposal

Dispose of contents and container in accordance with all federal, state, and local laws.

Warranty

Due to variations in the storage, handling, and application of these materials, Adhesive Engineering makes no representations or warranties of any kind, expressed or implied, concerning their performance and shall not accept liability for the results obtained.



TECHNICAL DATA

Uncured Properties

	Part A	Part B
Viscosity, cps (Spindle TD, 2.5 rpm)	170,000	130,000
Density (lbs/gal):	8.07	8.05
Color:	Off White	Amber
Flash Point (LCC):	51°F	
Mix Ratio (weight & volume):	1:1	

Typical Curing Properties*

Mixed Viscosity, cps (Spindle #4, 6rpm),	150,000
Mixed Density (lbs/gal):	8.05
Working Time:	12 – 15 minutes
Fixture Time:	18 – 22 minutes

*Curing properties are highly dependent on the specific application and the materials being bonded. The ranges used here are based on representative examples of typical applications.

Typical Cured Properties

Hardness, Shore D:	70 – 75
Elongation:	10%
Operating Temperature:	-40° to 250°F

This product can go through one paint bake cycle of 375°F for 20 minutes with no significant loss in strength.



Innovative Adhesive Solutions, Tailored for Your Industry

Made in the USA

Adhesive Engineering is a division of Barker Industrial Group.

For over 30 years, we've worked alongside distributors, OEMs, manufacturers, and end users to develop adhesive and dispensing solutions for demanding real-world applications.

For more information and samples, contact your local distributor or an AE representative.

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