

ER1005-4BP

Fast Set Epoxy Adhesive

DESCRIPTION

ER1005-4BP is a five-minute set, two-part, general purpose epoxy adhesive system in a bust pouch. ER1005-4BP is used for general purpose repair, laminating and bonding items such as cold rolled steel (CRS), aluminum, ceramic, expanded polystyrene bead board, most thermoplastics, lauan, Melamine/Formica, Masonite, and plywood. ER1005-4BP is a 100% solids product containing no volatile solvent which might prove irritating to employees. ER1005-4BP can be applied manually when made up in small batches or with a meter/mix applicator. Because of the fast set time of the product, it can be used for structural tacking applications where welding or riveting is impractical.

ER1005-4BP is available in a 4 gram burst pouch and other sizes upon request.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

TYPICAL PROPERTIES	TEST METHOD	VALUE
Gel Time [100 Gram Mass at 75 °F] (minutes):		3-6
Thin Film Set Time [75 °F] (minutes):		4 – 6
Shore D Hardness:	ASTM D2240	80
Lap Shear [CRS* to CRS] (psi):	ASTM D1002	2,200
Lap Shear [Al to Al] (psi):	ASTM D1002	
30 minutes:		1,100
1 hour:		2,100
2 hours:		2,800
4 hours:		2,800
Tensile Strength (psi):	ASTM D638	8,000
Compression (psi):		10,200
Elongation (%):		2.6
Operating Temperature (°C):		-40 to 100
Water Absorption (%):		
24 Hour:		<1
Solids Content (%):		100
Volume Resistivity (Ω cm):		1.27×10^{16}
Surface Resistivity (Ω):		2.76×10^{16}
Dielectric Strength [5 mil thickness] (V/mil):		1484
Dielectric Strength [1/8" mil thickness] (V/mil):		400
Part A:		
Viscosity (cps):	ASTM D2393	11,000
Color:		Blue
Part B:		
Viscosity (cps):	ASTM D2393	10,000
Color:		Yellow
Mixed Product:		
Viscosity (cps):	ASTM D2393	10,500
Color:		Green

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

ER1005-4BP Fast Set Epoxy System

TYPICAL PROPERTIES

Mix Ratio:

By Weight:

By Volume:

Shelf Life (months):

TEST METHOD

VALUE

1:1

1:1

1:1

1:1

12

12

APPLICATION PROCEDURES

Clean surface before applying. Roll pouch from the bottom to the top until the seal ruptures. Knead until well mixed and a light green color. Cut off corner and apply.

CAUTION: Unmixed compound can cause soft spots or uncured areas in the completed piece.

PRECAUTIONS

For industrial use only. Keep away from children. Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using. Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

RESIN AND HARDENER WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

*CRS = cold rolled steel

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.