



## Freeman 5001 Epoxy Adhesive

### Description

Freeman 5001 is an epoxy adhesive designed to closely match hardness and color of the RenShape BM-5060 epoxy tooling board. Freeman 5001 may be used in applications where temperatures do not exceed 230°F.

### Physical Properties

Color	Light Blue
Mix Ratio (by weight)	100:15
Viscosity, Mixed (cps)	100,000
Hardness (Shore D)	75
Gel Time (minutes @ 75°F)	90
Light Handling Time (hours @ 77°F)	24
Specific Gravity (g/cc)	1.00
CTE (in/in/°F)	$19.4 \times 10^{-6}$
Shrinkage (in/in)	0.001

### IMPORTANT:

Boards to be bonded must be clean and free of contaminants. Bonded boards should be cured a minimum of 24 hours at 75°F before post cure.

Please see the RenShape BM-5060 Technical Data Sheet for instructions on curing parts at elevated temperatures. The temperature differential ( $\Delta T$ ) between the center of the tool and the external surface must never exceed 50°F on either ramp up or cool down. Shocking boards on heat-up or cool-down may cause cracks to form.

The user shall determine the suitability of this product for their application and assumes all risks and liabilities associated with the use of this product. The exclusive remedy for all proven claims is replacement of our materials only and in no event shall Freeman Mfg. & Supply Co. be liable for special, incidental, or consequential claims.

READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT