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♦ *TECHNICAL BULLETIN* ♦ *TECHNICAL BULLETIN* ♦ *TECHNICAL BULLETIN* ♦

EPOXY RESIN RBC # 501C

RBC #501C is a modified, medium viscosity resin with excellent clarity and air release properties. It is ideal for use as a decorative and protective coating for applications such as doming labels, pictures, bar tops, and magnets. RBC 501C can be mixed 1:1 by volume or 2:1 by weight, depending on the choice of hardener.

HANDLING PROPERTIES:

Mixed Viscosity @ 25°C,cps	500
Shelf Life, (closed Container @ 25°C)	1 year

PHYSICAL PROPERTIES (CURED):

Color, APHA	50
Specific Gravity @ 25°C	1.07
Hardness, Shore D	85
Linear Shrinkage, in./in.	0.003
Izod Impact Strength, ft. lbs./in. of notch	0.60
Tensile Strength @ 25°C, psi	8,500
Compressive Strength @ 25°C, psi	28,000

The above properties are typical of a system cured with Hardener # A-95.

RECOMMENDED HARDENERS:

A-95	A low viscosity, short pot life, room temperature cure system with excellent air-release that can be mixed 2:1 by weight.
AB-88	A medium viscosity, room-temperature cure hardener with very good air release that can be mixed 1:1 by volume.
AB-89	A thicker, faster-setting version of AB-88 that can also be mixed 1:1 by volume.
B-124	A rigid, heat-cure system with a long pot life, designed for small to large castings.

The manufacturer, RBC Industries, Inc., hereby gives notice that any statement or representation made by the manufacturer in the sales of any and all of its products shall not create any warranty of merchantability expressed or implied. Statements or descriptions are informational only and the purchaser shall be solely responsible for determining the adequacy of the product for any and all uses.

MIXING INSTRUCTIONS: Weigh the desired amount of # **501C** resin into a clean container and combine with recommended hardener in one of the ratios shown below:

HARDENER	PARTS BY WT. PER 100 PTS. RESIN	BY VOLUME	POT LIFE 100 GRAMS @25°
A-95	50	NR	20-30 MINUTES
AB-88	83	1:1	50 MINUTES
AB-89	86	1:1	35 MINUTES
B-124	45	NR	2-3 HOURS

RECOMMENDED CURE SCHEDULE:

HARDENER	CURE @ 25°C (77°F)	CURE @ 35°C (95°F)	CURE @ 49°C (120°F)	CURE @ 65°C (150°F)
A-95	18-24 HOURS	6 HOURS	3 HOURS	1 HOUR
AB-88	18-24 HOURS	6 HOURS	3 HOURS	1 HOUR
AB-89	12-18 HOURS	4 HOURS	2 HOURS	1 HOUR
B-124	---	1-2 HOURS	1 HOUR	30-45 MINUTES