



80 Cypress Street, Warwick, RI 02888 ♦ U.S.A.  
401-941-3000 ♦ 800-272-7752 ♦ Fax: 1-401-941-0150  
info@rbcepoxy.com ♦ www.rbcepoxy.com

♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦ TECHNICAL BULLETIN ♦

EPOXY RESIN RBC # 1086

RBC #1086 is a modified, low viscosity, semi-flexible epoxy resin with excellent clarity and air release properties. It is ideal for use as a decorative and protective coating for applications such as doming pictures, labels, and tables. The built in flexibility affords improved abrasion with superior shock resistance. RBC # 1086 can be mixed 1:1 by volume with selected hardeners.

**HANDLING PROPERTIES:**

Mixed Viscosity @ 25°C,cps	2800
Shelf Life, (closed Container @ 25°C)	1 year

**PHYSICAL PROPERTIES (CURED):**

Color, APHA	50
Specific Gravity @ 25°C	1.08
Hardness, Shore A	80
Linear Shrinkage, in./in.	0.003
Izod Impact Strength, ft. lbs./in. of notch	0.60
Tensile Strength @ 25°C, psi	8,000
Compressive Strength @ 25°C, psi	27,000

The above properties are typical of a system cured with Hardener #AB-89.

**RECOMMENDED HARDENERS:**

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.

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 # 1086 Resin into a clean container and combine with recommended hardener in one of the ratios shown below:

<u>HARDENER</u>	<u>PARTS BY WT. PER 100 PTS. RESIN</u>	<u>BY VOLUME</u>	<u>POT LIFE 100 GRAMS @25°</u>
AB-88	83	1:1	50 MINUTES
AB-89	86	1:1	35 MINUTES

**RECOMMENDED CURE SCHEDULE:**

<u>HARDENER</u>	<u>CURE @ 25°C (77°F)</u>	<u>CURE @ 35°C (95°F)</u>	<u>CURE @ 49°C (120°F)</u>	<u>CURE @ 65°C (150°F)</u>
AB-88	18-24 HOURS	6 HOURS	3 HOURS	1 HOUR
AB-89	12-18 HOURS	4 HOURS	2 HOURS	1 HOUR