Epoxy Resin Cure Times

Epoxy Hardeners:
(This cure speed table applies to resins sold at **BoatBuilderCentral.com**.)

Mixing Ratio:

All our resins use a 2:1 ratio. This means two volumes of resin for one volume of hardener. Note that the ratio is by volume, not weight. The easiest way to measure the proper volumes is with a dispensing pump. Buy two: one for the hardener, one for the resin, the pumps fit right on the epoxy jugs. For large batches (12 oz or more), we prefer to pour from the bottle into graduated mixing cups – this saves time on big jobs.

Hardener speed:

Epoxy mixed with hardener will cure in a wide range of temperatures, but the speed of the cure varies with the hardener. We sell three hardeners: slow, medium and fast. They can be mixed for even more precise cure speed. Below we show a table with typical cure speeds. After the indicated times (minutes), at those temperatures, a batch of mixed resin and hardener (30z./100gr) will begin to gel. With epoxy, you cannot adjust cure time by altering the amount of hardener. Adding more or less hardener will only make for an uncured batch, stick to the formulated mix ratio.

°F	°C	Fast	Medium	Slow
35	2	90		
40	4	**72**		
45	7	**60**		
50	10	**50**	120+	
55	13	**41**	92	
60	16	**33**	**69**	120+
65	18	**28**	**56**	106
70	21	22	**44**	89
75	24	18	**35**	74
80	27	14	**28**	61
85	29	12	**24**	**49**
90	32	10	**20**	**41**
95	35	8	16	**35**
100	38	6	13	**30**
105	41	5	11	26
110	43	4	9	21

The ideal temperature ranges are highlighted. Note that resin will cure faster in a larger batch but slower when spread over fiberglass. Mix small batches at a time and wait 24 hours before sanding. Do not leave epoxy to sit in the pot, this "mass" will accelerate the cure and reduce pot life.

Try our epoxies with our **trial kit**. It includes samples of epoxy, various fillers, fiberglass and instructions on their use.

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