

# Epic® Epoxy Thinner

## Epoxy Resin Thinning Fluid



www.smooth-on.com

### PRODUCT OVERVIEW

**Epic® Epoxy Thinner** is a clear, water-like liquid that will lower the viscosity of Smooth-On casting and laminating epoxies. Epic® can be added in different proportions to an epoxy system and improves flow-ability, making it easier to mix and pour or laminate. Epic® will also aid in reducing bubble entrapment.

Epic® Epoxy Thinner *IS NOT A SOLVENT*, is not hazardous and contains no VOC's or phthalates. Solvents that are commonly used to thin epoxies cause shrinkage. Epic® is 100% reactive fluid, does not evaporate and does not cause shrinkage. Epic® also facilitates higher filler loading and gives better wetting and impregnation.

### PREPARATION...

Store and use all materials at 73°F / 23°C. Avoid breathing fumes - use in a well ventilated area at minimum. NIOSH approved respirator is recommended. Wear safety glasses, long sleeves and rubber gloves to minimize skin contact.

### USAGE...

Epic® Thinner is added by weight. A gram scale is required. Read and follow directions given on the technical bulletin for the EpoxAcast® or EpoxAmite® product before adding Epic® Thinner.

**Important** - Physical and performance properties (including Shore hardness) of cured epoxy system may be lower in proportion to the amount of Epic Thinner added. Do not exceed recommended loading maximum of 10% of epoxy Part A, as the epoxy system may not cure. A small scale test is recommended if outcome is uncertain.

### MEASURING AND MIXING...

Add Epic® Thinner to Part A of the epoxy system and pre-mix thoroughly before adding Part B. Mix all parts thoroughly and apply.

#### Usage Example - Epic® Epoxy Thinner and EpoxAmite® 100 with 101 Hardener

100g EpoxAmite 100 (Part A)	+	5g Epic® Thinner (Mix Thoroughly)	+	24g EpoxAmite® 101 Hardener (Part B)	=	<b>Viscosity:</b> 900 cps	<b>Shore Hardness:</b> 84D
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## Mixed Viscosity & Shore D Hardness Epic® Thinner is Added as a Percentage of Part A

	% of Epic® Thinner Added To Part A	Viscosity	Shore D Hardness After 24 Hours	Shore D Hardness After 7 Days
<b>EpoxAmite® 100 101 Hardener</b>	0%	1200 cps	84D	84D
	1%	1150 cps	84D	84D
	5%	900 cps	84D	84D
	10%	690 cps	82D	82D
<b>EpoxAcast® 650 101 Hardener</b>	0%	7000 cps	89D	89D
	1%	6200 cps	89D	89D
	5%	3800 cps	87D	87D
	10%	1960 cps	83D	85D
<b>EpoxAcast® 655 101 Hardener</b>	0%	23000 cps	90D	90D
	1%	13150 cps	89D	89D
	5%	5600 cps	88D	88D
	10%	2900 cps	74D	82D
<b>EpoxAcast® 690</b>	0%	280 cps	80D	80D
	1%	270 cps	78D	79D
	5%	220 cps	70D	78D
	10%	190 cps	55D	72D

**Because no two applications are quite the same, a small test application to determine suitability is recommended if performance of this material is in question.**

### ***Safety First!***

The material safety data sheet (MSDS) for this or any Smooth-On product should be read before using and is available on request or on our website at [www.smooth-on.com](http://www.smooth-on.com). All Smooth-On products are safe to use if directions are read and followed carefully.

**Keep Out of Reach Of Children.**

**IMPORTANT** - The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe a copyright or patent. User shall determine suitability of the product for the intended application and assume all associated risks and liability.



**Call Us Anytime With Questions About Your Application.**

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The new [www.smooth-on.com](http://www.smooth-on.com) is loaded with information about mold making, casting and more.