FREEMAN Manufacturing & Supply Company

North America's largest materials supplier for making parts, patterns, tools, and molds

HOME | MY ACCOUNT | SAMPLE KITS | VIDEO LIBRARY | CLOSEOUTS | DIY WEBSITE

July/August 2018 *in this issue*

Product Spotlights, Technical Q&A, and Exclusive Newsletter Video Links

What you'll find at our CAMX 2018 Booth in Dallas, New RenShape Cut Sizes, and Tech Q&A: FAQ!

Our Interactive Closeout List is live!

DIY-size Products: Direct Ordering on Miapoxy.com

Miss our last newsletter? Click here to view!

Our public warehouse in Atlanta can now be found at:

1775 Continental Way
Atlanta, GA 30316

Questions? Contact the local Technical Account Manager.

Thanks for visiting us at CAMX 2018!

We enjoyed seeing you and are looking forward to CAMX 2019!

Tech Q&A

The Tech Team is ready to help!
Monday – Friday, 8 am – 5 pm EST
Just call (800) 321-8511 opt. 5

The Tech Team's Frequently Asked Questions

Q: How do I calculate the amount of material I need for my project?

A: $\frac{\text{Volume of Model or Mold (in.}^3\text{)}}{\text{Volumetric Yield (in.}^3\text{/lb.)}} = \text{Weight of Product Required (lb.)}$

Q: I know the combined weight needed for my project. How do I calculate the resin and hardener needed?

A: First, add the mix ratio values for Resin and Hardener together and divide this number by the combined weight needed. Then, multiply that number by the mix ratio for each part.

Example: 100A:10B mix ratio, 2000 g combined weight needed
110 / 2000 = 18.18
18.18 x 100 parts Resin = 1,818 grams
18.18 x 10 parts Hardener = 181.8 grams

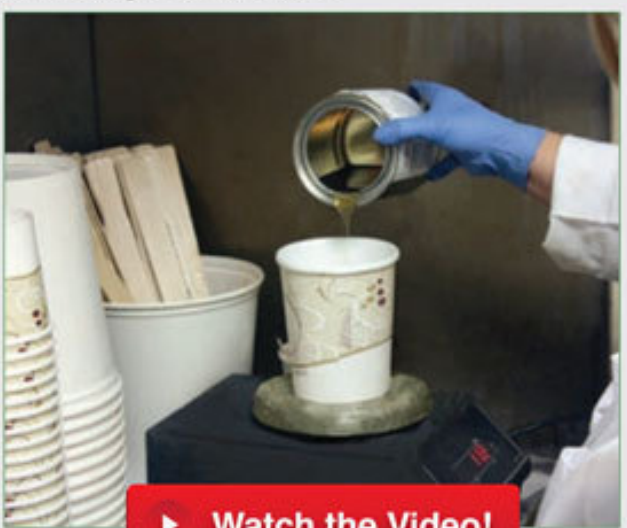
Q: Can I add more hardener to the resin to speed up cure time?

A: This is not recommended when working with polyurethanes, epoxies, or silicone rubber. During mixing, these materials undergo a chemical reaction. If the mix ratio is not properly followed, the chemical reaction will not work as intended, resulting in improper curing of the material.

Q: How can I prevent soft spots on the surface of my mold where material has not cured?

A: This is usually caused by material that was not mixed thoroughly. We recommend a 2-cup method when mixing polyurethanes, epoxies, or silicone rubber. After calculating your material requirements, follow these mixing instructions.

1. Thoroughly stir the A and B sides before use.
2. Use a digital gram scale instead of volume measuring, spring scales, etc. to measure ratios of A and B components.
3. Place an empty container on the scale and zero the scale.
4. Pour the A side into the container.
5. Zero the scale again and pour the B side directly on top.
   NOTE: Do not weigh components in separate containers. Leaving material behind in the cups will skew the mix ratio.
6. Using a paint paddle, mix completely, scraping the sides and bottom of the container thoroughly.
7. Pour the mixture into a second container, again scraping the sides and bottom of the container thoroughly.
8. Mix again before pouring into your mold or degassing (if necessary).



Have questions? Contact our Tech Team at (800) 321-8511 opt. 5 or tech@freemansupply.com!

DIY CORNER

NEW Sizes!

RenShape Cut Sizes Available!

Try our smaller, easier to handle sizes of RenShape products on Miapoxy.com!

We offer cut and non-standard sizes of many of our RenShape products in a variety of dimensions. Get yours today at 50% off list price! We've also added new cut sizes for RenShape 5045, 460, 5460, BM-70, and 5179 (Red Board!). Get them before they're gone!

Try RenShape Cut Sizes

All cut sizes are available only while supplies last.

Exclusive Newsletter Videos

As always, the following videos are exclusive to newsletter subscribers!

Creating a Part with Freeman Fillers
Casting Thin-Walled Parts
Casting Molds & Models w/Intricate Detail
Multiple Cavity Molds
Silicone Molds w/Complex Parting Lines
Building an Epoxy/Fiberglass Mold
Vacuum Bagging a Carbon Fiber Part

Full Video Library | YouTube Channel | Purchase DVD on ebay

Don't forget to take advantage of our website for resources such as TDS, SDS, and more for all of our products. Thank you for subscribing to our newsletter, and we look forward to servicing your material

needs!

Sincerely,
Freeman Manufacturing & Supply Company
About Us | Contact Us