



ISO 9001-2015 Certified

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## TECHNICAL TIPS

### Handling Procedures for Premixed & Frozen Materials

Commonly, customers will purchase two component epoxies premixed and frozen in syringes for automated dispensing. This removes the weighing step and ensures that material has already been properly mixed for two component systems.

Here are some quick tips on how to properly handle these materials:

1. All Epoxyset premixed & frozen material is shipped in insulated foam boxes filled with dry ice. Upon arrival, the customer should inspect the level of dry ice inside the foam box. There should be sufficient dry ice left in the box to maintain  $<-40^{\circ}\text{C}$  temperature (covering the inner boxes or bags at minimum).
2. While using work gloves or other insulating gloves (latex or nitrile gloves will not suffice), the boxes or bags of syringes should be removed, inspected for quantity, and placed directly into a  $-40^{\circ}\text{C}$  or below freezer ( $<5$ -minute process).
3. When ready to use, remove the desired quantity out of the freezer and onto a holder or rack in at room temperature,  $25^{\circ}\text{C}$  ( $77^{\circ}\text{F}$ ). If possible, only handle the syringe from the flange or tip. Over handling syringes, especially directly on the barrel, can lead to freeze thaw voids which may lead to air pockets in the syringe. While each product is different, the below is a guide of thawing times depending on the size of the syringe.

Syringe Size	Thaw Time
1-3 cc	5-10 min
10cc	10-15 min
30-55cc	15-20 min

4. Once the syringe has been thawed, wipe syringe of excess moisture or condensation before removing tip cap. If the product seems too thick, wait longer for the epoxy to thaw more before continuing with dispensing.

5. The pot life of the syringe packaged material will be like the pot life listed on the datasheet for the product. Keep in mind the time needed to thaw the product as well as for packaging. The user should be conservative with the syringe pot life so as not to affect the performance of the adhesive by dispensing too close to the end of the recommended pot life.

**Epoxyset does not recommend re-freezing syringes once they have been thawed as the material properties will have been affected.**

**Please contact Epoxyset technical service at [info@epoxyset.com](mailto:info@epoxyset.com) or at +1 (401)-726-4500 for further questions or concerns handling premixed and frozen systems.**

**DISCLAIMER:** All information given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.