



FREEZEBOND

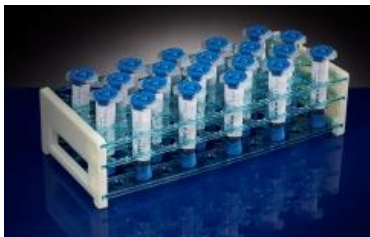
by EPOXIES ETC.

RECOMMENDED HANDLING PROCEDURES FOR PREMIXED AND FROZEN MATERIALS

Epoxies, Etc. manufactures and packages some products premixed and frozen (<-40°C) for ease of use, safer handling, consistent quality and convenience. These products arrive in syringes and are ready to use after following a few easy steps.

Here are some tips and important steps to ensure that you get optimal performance when you are ready to use the product:

1. Premixed and frozen products are shipped in dry ice (approximately -80°C).
2. **Always** handle these packages with protective gloves. This is for 2 reasons: to protect the package from a thermal shock condition* and to protect the handler from severe frostbite.
3. Premixed and frozen packages should be transferred immediately to a -40°C freezer. **Do not** allow the package to dwell at room temperature.
4. Please take note of the recommended shelf life of the product. It can range from 1 month to 6 months at -40°C.
5. When you are ready to use the product, remove it from the freezer (while wearing protective gloves and handling only at the ends of the syringe or cartridge) and place it in a vertical position with the tip down.
6. Remove the barrel end cap on the back or upper portion of the syringe or cartridge.
7. Thaw times vary depending on material and package size. Here are some recommended thaw times for some standard syringe sizes:



1-3cc	20 minutes
10cc	30 minutes
30cc	45 minutes
50cc	50 minutes

8. Dispense the product within the pot life (as specified by Epoxies, Etc.).
9. Do not re-freeze the syringe. This can result in void formation or moisture contamination and can compromise the properties of the product.

*Exposure to rapid temperature changes can cause cracking or voiding in the syringe. These are commonly referred to Freeze Thaw Voids (FTV). The appearance of voids in FreezeBond™ products will not affect the quality of the product, but can be disruptive in certain critical bonding applications.

IMPORTANT:

EPOXIES, ETC. MAKES NO EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS OR OTHERWISE WITH RESPECT TO ITS PRODUCTS. The information in this brochure is based on data obtained by our own research and is considered reliable. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. The properties given are typical values and are not intended for use in preparing specifications. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.