

Instructions for Handling, Storing and Thawing Premixed and Frozen Products

Premixed Frozen Products are a two component resin system that has been precisely weighed, mixed, degassed, packaged, and quickly frozen at -40°C to -80°C to retard the chemical reaction between A & B or the curing of the polymer. This product is then shipped in insulated containers with -80°C dry ice, or for some products not compatible with dry ice, with 14°C blue ice gel packs. Once the product is allowed to thaw it begins to cure or the chemical reaction continues at a relatively fast rate.



Therefore, it is very important that upon receipt of the shipment that the Premixed Frozen Product is transferred to a -40°C freezer without any additional handling or delay. Delays in shipment and delays in receiving must be avoided as the Premixed Frozen package must be transferred to a -40°C freezer with 48 hours of shipment to maintain product quality.

It is recommended that these Premixed Frozen products equilibrate to -40°C prior to warming them to room temperature (RT) for use. This should occur within 24 hours maximum. If a Premixed Frozen product is brought from -80°C dry ice directly to room temperature there is a high probability of creating irreversible air voids.

Prior to application or use, allow the Premixed Frozen product to thaw naturally to room temperature ($20-25^{\circ}\text{C}$) by placing vertically with the dispense tip up, in the case of a syringe or cartridge. We do not recommend using additional heat sources such as ovens, hot air guns, hot plates, or warm water baths to speed up the thawing process. Thaw time varies from 10 minutes to two hours depending on the type and size of the Premixed Frozen package. Wipe all excess moisture off the package prior to use.

Once thawed to room temperature, the product must be applied within the specified work life, and then discarded. In most cases, the left over material once cured can be disposed of as non hazardous waste. We do not recommend that the product be refrozen and reused.

CAUTION: Use thick protective rubber gloves when handling dry ice. Read and understand MSD's prior to product use and wear recommended personal protective equipment such as safety glasses and rubber gloves.