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TECHNICAL DATA SHEET

Alumilite Floral Preservation Resin

Amazing Floral Preservation Resin is a clear, low-heat, polyaspartic casting system designed for flower encapsulation and other decorative castings where clarity and gentle cure behavior are important. This system is intended for use with fully dried florals and dry inclusions only. Because it is moisture-sensitive and faster-reacting than conventional epoxy, accurate measurement, gentle mixing, and controlled pour thickness are critical for best results.

PRODUCT SPECIFICATIONS

Mix Ratio	1A:1B by volume
Mixed Viscosity	3000-4000 cps
Working Time	15-20 minutes
Tack Free Time	14-20 hours
Demold Time	24 hours
Heat Deflection	110°F
Hardness	68-D
Full Cure Time	7 Days
Shelf Life	1 Year
Color	Clear

BEFORE USE: Thoroughly read Safety Data Sheets, product labels and the “SAFETY” section in this Technical Data Sheet.



IMPORTANT: PLEASE NOTE

- Use only fully dried florals. Any residual moisture can cause cloudiness, bubbling, foaming, or rapid curing.
- Do not use torches, heat guns, isopropyl mist, or warm water baths to release bubbles or thin the material.
- This system is moisture-sensitive, especially Side B. Opened material should ideally be used within 15-20 days.
- Use only non-water-based dyes, pigments, or powders that are compatible with polyaspartic systems.
- For non-floral pours, do not exceed 8 oz in a single pour without prior testing.

BEFORE YOU BEGIN

Work Environment: The ideal working temperature is around 65-75°F in a clean, dry, dust-free environment. Avoid working in high humidity. If you are pouring in large volumes of 2 or more gallons, we suggest keeping room temperature closer to 65°F.

- Prepare molds so they are clean, dry, and dust-free. This product can bond to most surfaces, so mold release is recommended for non-silicone molds when appropriate.
- For porous inclusions or substrates, apply a thin seal coat first and allow it to become tacky before overcoating.

Materials: Be prepared with all necessary materials and tools before beginning your project.

- Stir-sticks
- Mold box
- Cleaning Materials
- Misc. handling tools – X-acto knife, pliers, a drill or Dremel tool, heat gun, etc.

MIXING & POURING

Step 1: The mix ratio of the Floral Preservation Resin is 1A:1B by volume. Using a graduated mixing container, measure equal parts per side. For floral encapsulation, pour slowly into one corner of the mold and let the material flow naturally. Do not move the stream around the mold.

Step 2: The material must be mixed thoroughly for 3-5 minutes. Be sure to scrape the sides, corners and bottom of container as you mix. Be careful not to whip excessive air into the mixture. If mixing a gallon, use a power mixer set to "hand speed".



Step 3: When pouring, use shallow layers between 1/4 in and 1/2 in thick to reduce microbubbling and protect delicate flowers from excess heat. Additional layers may be poured every 3-6 hours. If more than 24 hours elapses between coats, lightly abrade and solvent wipe before recoating.

Step 4: If bubbles collect around petals, use a toothpick or similar pointed tool to gently tease them free. Do not chase bubbles with heat or aggressive tool movement. A pressure pot is optional and can help reduce trapped air in demanding encapsulation work, provided equipment limits and manufacturer instructions are followed.

CLEAN UP & DISPOSAL

Tools can be cleaned with Isopropyl Alcohol 99% or a residue-free cleaner. Do not use soap and water. Dispose of product and container according to Federal, State and local regulations. Store any remaining product in the original bottles, tightly sealed and locked up in a cool, dry environment.

SAFETY

Safety: Before use, thoroughly read Safety Data Sheets and product labels. Follow safety precautions and directions.

- Wear gloves
- Safety glasses
- Protect clothing with a work smock or other outer garment
- For cleaning surfaces, containers – use Acetone, rubbing alcohol or nail polish remover
- When stored separately, epoxy & hardener have long shelf lives – store in a cool dry area in tightly sealed containers

Part A: Keep out of reach of children. Wear impervious gloves, such as butyl rubber or nitrile rubber. Wash skin thoroughly with soap and water after handling. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical help. Wear eye protection, such as chemical safety glasses/goggles. If in eyes, rinse cautiously with water for several minutes, removing contact lenses if present and easy to do. If eye irritation persists, get medical help.

Part B: Keep out of reach of children. Do not eat, drink, or smoke when using this product. If swallowed, rinse mouth and get medical help. Use with adequate general or local exhaust ventilation to minimize exposure levels. If needed, a NIOSH-approved respirator with organic vapor cartridge may be used. Wear impervious gloves, such as butyl rubber or nitrile rubber. Wash skin thoroughly with soap and water after handling. Wear eye protection, such as chemical safety glasses/goggles. If in eyes, immediately rinse with water for several minutes, removing contact lenses if present and easy to do. If eye irritation persists, get medical help.

WARNING: THE CURE REACTION IS EXOTHERMIC. Do not apply in thicknesses greater than the recommended maximum application thickness for the product.



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DISCLAIMER: The information contained herein is considered accurate; however, Alumilite makes no warranty regarding its accuracy. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.