55 Hilton Street, Easton PA 18042
(269) 488-4000
www.alumilite.com

TECHNICAL DATA SHEET

Amazing Clear Cast

Alumilite's Amazing Clear Cast is a clear casting and coating system that cures to a rigid, durable, clear plastic. Use Amazing Clear Cast for coating or finishing applications such as bar tops, floors, taxidermy scenery, lenses, and all sorts of other clear casting or coating applications. Amazing Clear Cast is an easy to use, 1:1 mix ratio system that cures overnight which allows time for air bubbles to evacuate prior to curing. Amazing Clear Cast can be colored with Alumilite dyes, alcoholic inks, or other non-water base colorants. Complies with FDA CFR 177.2600

PRODUCT SPECIFICATIONS	
Mix Ratio	1:1 by weight or volume
Mixed Viscosity	2600 cps
Working Time	45-60 minutes
Tack Free Time	4-5 hours
Demold Time	24 hours
Heat Deflection	130ºF
Hardness	80-D
Full Cure Time	3-5 Days
Tensile Strength	8000 psi
Elongation Strength	1-3%
Shelf Life	1 Year
Color	Clear

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

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IMPORTANT: PLEASE NOTE

- This product can be mixed with pigment powders and liquid dyes to achieve your desired color. Do not mix any oil or water-based products with the resin. When in doubt, test a sample batch to ensure you can achieve your desired color without issues.
- Storing unused product – Unmixed resin and hardener have a long shelf life of 12 months. Store in original containers in a cool, dry place.

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. We highly recommend keeping fans on your project to help dissipate heat.

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.

Open Time & Mixing: This product can be mixed with pigment powders and liquid dyes to achieve your desired color. Do not mix any oil or water-based products with the resin. When in doubt, test a sample batch to ensure you can achieve your desired color without issues. Storing unused product – Unmixed resin and hardener have a long shelf life of 6 months. Store in original containers in a cool, dry place. The mix ratio of the Amazing Clear Cast is 1:1 by Volume. Using a graduated mixing container, measure out equal parts per side. Varying the mix ratio will alter the cure and change the physical properties in a negative ways such as tackiness or uncured surfaces. When mixing multiple batches, it helps to have a dedicated side A and side B measuring cup, which are then added to a larger mixing container. After the materials have been poured together, mix thoroughly (keeping the stir stick in contact with the bottom of the cup -reduces air from being introduced into your resin) for approximately 3-5 minutes. Make sure to scrape the sides and the bottom of the mixing cup and continue to mix until no swirls are seen. Once no swirls are seen, mix for an additional 2 minutes. Because of the differences in viscosity between the two parts, mixing takes extra time.

Vacuum Degassing: For instances where large surface areas are being coated and drill mixers will be used for mixing, vacuum can be used to remove air from the resin before pouring onto surface. Vacuum puts negative air pressure on the material and expands the air bubbles to a large size which gives them the buoyancy to float to the top and pop. Once mixed thoroughly and placed under vacuum, the air bubbles will come up and then go back down. Once the bubbles go back down under full vacuum and begin to clear up, you may remove the mix container from the vacuum chamber and pour onto surface.

Color – Dyes & Painting: Amazing Clear Cast can be dyed or pigmented using non-water base dyes. Alumilite offers a line of translucent dyes in standard colors that react/crosslink chemically with the resin to achieve beautifully translucent cast pieces with no worry of leaching or color ever coming out of the cured piece. Alumilite's Flourescent, White, and Black are not completely transparent as they contain some filler. When used in small quantities, they do not affect the transparency of the piece. However, if used in higher percentages, they can add opacity to the cast piece. Use very small amounts of dye to achieve bright translucent colored castings. If you are looking to use a dye, pigment, or filler that you have not used before, we highly recommend making a small test sample to ensure compatibility before using in resin.

Color Stability – Yellowing: As with all epoxy chemistry, ACC will develop a yellow hue over time. While there are UV inhibitors in our system that help it resist longer than some competitor products, a yellow hue will still develop over time. Many times this is not ever noticed based on the underlying surface color and the relative thin layer. Applications where ACC is applied over bright white surfaces or when pouring thicker layers, yellowing may be more evident. We generally do not recommend ACC for outdoor applications, as the UV exposure will cause the resin to develop a yellow hue rather quickly . There are some instances where it may be reasonable such as adding Alumilite dye or Alumidust to color the resin, which often times negates or minimizes the yellowing. Also applying it over certain toned wood surfaces that have more yellow and orange hues to it would make the yellowing less noticeable.

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/googles. 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/googles. 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.

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.