

Amazing Quick Coat Clear Coating Epoxy

Product Description:

Amazing Quick Coat is an easy to use 2-part epoxy that cures to a durable, high-gloss finish that is FDA compliant when accurately measured, properly mixed, and fully cured. This quick curing formula is tack-free in as little as 4 hours at 75°F. Additional coats can be applied as soon as 1.5-2 hours. Mix slowly to minimize adding excess air bubbles to mixture. This quick curing formula does not have an extended open time to allow for air to release, therefore mixing slowly, but adequately is important. Amazing Quick Coat can be colored with Alumilite dyes, alcoholic inks, or other non-water base colorants. Complies with FDA 21 CFR 175.300.

Physical Properties:

Color	Clear
Mixed Viscosity (cps)	2800
Hardness, (ASTM D-2240) Shore D	81
Specific Gravity (Resin)	1.15
Specific Gravity (Hardener)	0.95
Shrinkage (in/in)	.008
Tensile Strength (ASTM D-638) (psi)	4,470
Tensile Modulus (psi)	124,000
Elongation (in/in)	9.1%
Flex. Strength (psi)	3,370
Flex. Mod. (psi)	128,000
Temperature Resistance	Not recommended beyond 130° F

General Properties:

Color	"A" Side	Clear
	"B" Side	Clear
Mix Ratio		1:1 by vol.
Shelf Life		1 year
Open Time at 75° F (100g mass)		20-25 minutes
Tack-Free Time at 75° F (100g mass)		4-5 hours
Full Cure Schedule		3-5 Days

Packaging:

16 oz	8 oz A/8 oz B
32 oz	16 oz A/16 oz B
64 oz	32 oz A/32 oz B
1-gal	.5-gal A/.5-gal B
2-gal	1-gal A/1-gal B

Safety: Read complete labels, SDS, and technical data sheet including instructions before using.

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Instructions

Keep Amazing Quick Coat out of the reach of children, do not ingest, and do not use in any way other than its intended use.

Before Starting

Make sure your work area is appropriate for measuring, mixing, and pouring casting resins that can and will stain any porous materials such as carpet and clothing. Also make sure to use and store materials in an area where children cannot reach or access.

1. Open Time & Mixing

Amazing Quick Coat has a work time of 20-25 minutes based on a 100-gram sample at 70° F. Large amounts of mixed resin will shorten your work time as will warmer ambient temperatures. When mixing large volumes similar to a gallon, you can expect the open time to be cut in half.

The mix ratio of the Amazing Quick Coat is 1:1 by volume. Using a graduated mixing container, measure equal parts per side. Varying the mix ratio will alter the cure and change the physical properties in 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, thus, reducing introducing air to the mixture) for approximately 3-5 minutes. Make sure to scrape the sides and bottom of the container 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.

2. Pouring Thicker Layers

When used at room temperature, Amazing Quick Coat can be poured up to 1/8" at one time. Additional layers can be added 2 hours apart, but not beyond 12 hours without sanding in between layers. This can be repeated up to your desired thickness. Pouring beyond 1/8" in one pour can produce excessive exotherm that may cause bubbling, cracks, and deformations in the resin.

3. Vacuum Degassing

For instances where large surfaces are being coated and drill mixers will be used for mixing, vacuum degassing can be used to remove air from the resin before pouring onto surface. Vacuuming 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 places under the vacuum, the air bubbles will come up and then go back down. Once 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 the surface.

4. Color – Dyes & Painting

Amazing Quick Coat can be dyed or pigmented using non-water-based dyes. Alumilite.com offers transparent dyes, silicone color pigments, and Polycolor resin powders. These products produce vibrant and colorful effects when added to clear resins such as Alumilite Clear, Amazing Clear Cast, Amazing Deep Pour, and Amazing Quick Coat. We recommend testing in small amounts and adding more to brighten and deepen the color until the desired look is achieved. Application possibilities include beautiful river tables, blanks for wood turning, jewelry making, coasters, and more. If you are looking to use a dye, pigment, or filler that you have not used before, we highly recommend making a small test samples to ensure compatibility before using in your project.

5. Color Stability – Yellowing

As with all epoxy chemistry, Amazing Quick Coat will develop a yellow hue over time. Many times, this is not noticeable, especially if the epoxy is colored or poured over a colored surface. In applications where Amazing Quick Coat is applied over bright white surfaces, yellowing may be more apparent. We do not recommend Amazing Quick Coat 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 dyes or Polycolor to the resin. As well, applications over toned wood surfaces with yellow and orange hues will make the yellowing less noticeable.

6. Shelf Life

Amazing Quick Coat has a shelf life of one year. Once opened, this time can become shorter due to moisture contamination in humid environments.

8. Work Area & Clean Up

Mixed Alumilite resins will absorb into porous materials and will stain! Avoid clothing, carpet, upholstery, and any other porous materials which will stain and will not come out. Resin casting is best done in a designated work area such as a basement, garage, or hobby room with adequate air movement or ventilation. Cover any surfaces including floors with plastic sheeting, cardboard, or plywood to prevent damage from spilled resin. To clean up unmixed or still liquid material, use rubbing alcohol on a rag or paper towel to quickly clean and remove. Once cured, the resin is extremely durable and chemical resistant and nearly impossible to remove. There are a couple solutions out in the market that claim to dissolve cured urethanes.