



CRYSTAL TOP EPOXY-AHD

1:1 A TO B

Product Information

Description:

Crystal Top Epoxy-AHD (Advanced Heat Diffusion) is a two component, 100% solids, high-build USDA certified epoxy coating. The Advanced Heat Diffusion helps prevent heat rings in the final coating.

Uses:

In addition to Granicrete countertops, it is used for coating picture plaques, wood, photographs, plaster, and craftwork. It can also be used for magazine and newspaper clippings, ceramic statues, tabletops and bar tops.

Coverage:

Coverage for pour coat (1/16 inch)
2 Gallon kit will cover approx 60-80 sq feet

Note: Pouring over a thickness of 1/16 inch may cause excessive bubbles, yellowing, and distortions in surface. Use multiples coats to achieve desired thickness.

Surface Preparation:

For best results, the surface to be covered must be dry and free of dust, wax, grease, or oil.

Measuring:

Mix only the amount that you need at one time trying to keep the most for a mix limited to 1 quart of A and 1 quart of B. Unused resin and hardener should be left in original containers. Measure 1 part Resin A to 1 part Hardener B. Measure exact amounts of both resin and hardener in separate mixing cups. Do not add more hardener than resin, as this will cause the finished coating to remain sticky. Inaccurate measuring will cause epoxy surface to remain soft or sticky "spots" on the epoxy surface.

Tools:

Mixing container- Should have smooth wide-bottom flat bottom and be clean and dust free.

Stick - Must have flat, straight edge to ensure thorough mixing.

Foam Brush - Sometimes a small brush is needed for coating edges of crevices.

Mixing and Application:

Warm up the Crystal Top Epoxy-AHD Resin and Hardener to 75°- 80°F. This will improve the flow characteristics and bubble release. In a dry, clean container, mix equal parts of the resin (part A) with the hardener (part B). Be sure to scrape the sides and bottoms of mixing container while mixing. Mix for 3-4 minutes using a paint paddle. After mixing, transfer the mix into a similar mixing container and mix again for another 1-2 minutes.

IMMEDIATELY dip brush into mix to dampen and pour material onto the countertop in an “S” or “O” shape leaving only a few table spoons of mix in the mixing bucket to promote a working time of about 20-30 minutes. Spread (lightly move the epoxy) with foam brush, quality non-oil base bristle brush, or 4”-8” squeegee. Take care of the top surface first then address the edges. Allow the mix to self level by not over brushing the epoxy.

Note: Larger batches cure faster due to the chemical nature of this product. We do not recommend mixing more than a ½ gallon (combined 1 quart of A and 1 quart of B) mixture at a time.

Bubble Release

Wait 15-20 minutes then lightly pass a lit propane torch over the surface at a 45° angle with the tip of the torch being at least 6 inches from the surface until all bubbles are gone. The carbon dioxide at the end of the flame helps facilitate bubble release and popping the bubbles. This will help ensure a glass like finish. Torching too soon can trap the small bubbles within the material. Do not allow the torch to be idle on the surface or over torch.

If latent bubbles exist, a similar torching at 30 minutes may be needed

Drips may be sanded off after the item has cured

Drying Time:

Crystal Top Epoxy should be dry to touch in about 8-10 hours. Wait 72 hours before placing light appliances and objects on the surface. Wait at least 7 days. If a ring is left on the surface from a hot cup or plate, allow 4-6 hours for ring to disappear on its own. If ring is left within 2-7 days after product application and does not disappear completely, wave a hot hair dryer over surface for approximately 1-2 minutes. The ring should disappear immediately.

One coat is usually all that is needed to capture a glossy shine. Two or more coats may be applied without damaging the first coat. Crystal Top Epoxy is recommended for interior use only.

Limitations:

Crystal Top Epoxy should be stored in a dry place between 75°- 80°F, out of the sun and out of the reach of children. Resin and hardener should not be left in an open container. Application should be used in a room where the humidity is under 60% and temperature is between 70°- 85°F. Use a de-humidifier if needed. This product should be used within one year of purchase.

Clean Up:

Use Acetone to clean up Crystal Top Epoxy while it is in its liquid state. After it has been cured, it may be removed by sanding or a paint stripper. It is advisable to clean immediately after use.

Post Cosmetic Detailing Options:

After 24 hours, you may do a series of dry sanding to reduce the gloss and surface friction. Gloss reduction presents a more “realistic burnished” look similar to that of Corian® or polished granite. Surface friction provides a “soft to touch” feel that has less scratching as well. Refer to the Granicrete Countertop Surfacing manual for instructions on this detailing.

Technical Data:

<u>Exothermic data</u>	
Brookfield viscosity, cps, 25 °C	8000
Gel Time, minutes (200-g mass)	45
Peak Exothermic temperature , C°	152
Time to peak temperature	54
<u>Coating Properties, 6 mil film</u>	
Drying time, hr., Set to touch	3.7
Surface- Dry	5.5
Thru-dry	9.5
<u>Properties of Cured 1/8 inch castings</u>	
Izod impact strength, ft-lb/in	0.98
Dynatup impact, total energy, in-lb	32
Shore D hardness, 0-10 sec	85-87
Tensile Strength, psi	6,200
Ultimate elongation, %	6.5
Flexural strength, psi	10,500
Flexural modulus, psi	320,000
HDT, °C, 264-psi load	40
%Weight gain, 24 hr water boil	-0.3
3 hr acetone boil	
Compressive strength, psi, at yield	4,200
At failure	29,600
Cured 7 days, ~25°C	
1 inch cylinders, ½ inch diameter	

This product is for use by Granicrete Independent applicators only.
Wear Personal Protective Equipment including goggles and gloves.
Read MSDS before using this product.
DOT/Corrosive . Non-flammable Liquid but Corrosive to ship in liquid state.

Manufacturer/Distributor Warranty: As neither the manufacturer nor the distributor has control over the actual installation of this product, the manufacturer and distributor disclaim any and all warranties expressed or implied regarding color shade, appearance, and product performance at and after opening product containers. Manufacturer and distributor recommendations and suggestions are made without guarantee. Conditions of installer’s and consumer’s use of this product are beyond the control of manufacturer and distributor. Manufacturer and distributor disclaim any liability incurred in connection with the use of this product or information contained herein.