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Technical Bulletin

Ultra Clear Coat – Bar & Table Top Epoxy (A-108/B-183)

Description:

Ultra Clear Coat – Bar & Table Top Epoxy is a 100% solids, self-leveling, primerless, odorless, water clear coating often used for tables and bar tops. Ultra Clear Coat – Bar & Table Top Epoxy can be used anywhere a hard, durable, crystal clear coating is required. Ultra Clear Coat – Bar & Table Top Epoxy will cure to a clear, glass-like finish. Ultra Clear Coat – Bar & Table Top Epoxy has been enhanced with both a UV absorber and a HALS (hindered amine light stabilizer) to help lessen the effects of UV light to protect against loss of gloss, cracking, chalking and to reduce yellowing.

Product Advantages:

- IDEAL 1:1 MIX RATIO
- EXTREMELY TOUGH SURFACE
- HIGH GLOSS
- BLUSH RESISTANT
- EXCELLENT ADHESION TO WOOD

Application Guidelines:

Product is usually applied in two stages (see Application Section). Maximum pour depth is 1/8". Do not vary or deviate from mix ratios, failure to do so can result in soft spots or partial curing. For best results the material should be used at temperatures from 70°-80°F. Work areas should be clean and dust/insect free.

Handling/Physical Properties:

RESIN VISCOSITY, cP or mPa.s	4,000-6,000		ASTM 2196
RESIN DENSITY	9.4-9.65		ASTM D 792
HARDENER VISCOSITY, cP or mPa.s	800-1,600		ASTM 2196
HARDENER DENSITY	7.8-8.1		ASTM D 792
MIX RATIO (A/B), pbv (pbw)	1/1	(100/83)	
COLOR	Clear		
MIXED VISCOSITY, cP or mPa.s	2,700		ASTM D 2196
WORKING TIME, min	20		
GEL TIME, min (150 grams)	30		ASTM D 2471
DRYING TIME, (@1/8"):			
SURFACE DRY, h	6-8		
THRU DRY, h	10-12		
HARDNESS, Shore D	81		ASTM D 2240

Surface Preparation:	To achieve excellent adhesion, the substrate must be free of all loose and foreign material and should be clean. Oils, grease, waxes or other contaminates must be removed prior to coating.
Mixing:	The storage temperature of Ultra Clear Coat – Bar & Table Top Epoxy will greatly affect the ease of mixing, application and curing time. For best results, Ultra Clear Coat – Bar & Table Top Epoxy should be stored at **70-80 °F** for at least 24 hours before use. Mix 1 part A (resin) to 1 part B (hardener) using a spatula or stir stick until uniform. Be sure to scrape sides of mixing container while mixing (any unmixed or partially mixed material will cause wet spots on finished surface). DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.
Application:	Ultra Clear Coat – Bar & Table Top Epoxy can be applied with a foam brush/roller or squeegee. Material is typically applied in two stages. In the first stage a thin layer of material is applied to seal the substrate and prevent any air bubbles from forming in future coats. The second stage requires thicker flood coats applied at 1/8". How many flood coats are needed depends on your particular application but one to three is typical. Recoats can be applied as soon as current layer has "tacked up". If your previous layer has fully cured then very light sanding with a fine grit (220) sandpaper followed by a solvent wipe (isopropyl alcohol or acetone) is necessary before application of subsequent layer. A heat gun or torch may be used after the pour is completed and the material is still liquid to burst/pop any remaining air bubbles. If a torch is used the flame should never come in direct contact with the epoxy, smooth strokes 6-12 inches above the material is all that is required.

SAFETY PRECAUTIONS

Mix and pour in a well-ventilated area. Avoid contact with skin and eyes. If contact does occur, wash skin with soap and water and seek medical help. Read and understand all CAUTIONS on container labels and safety data sheets before using this material.

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD ON, BURN OR TORCH ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.**

WARRANTY AND DISCLAIMER

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