

TECHNICAL DATA SHEET EVER CLEAR

PRODUCT DESCRIPTION:

EVER CLEAR acrylic urethane is supplied at 60% non volatiles in t-butyl acetate. It is anticipated that t-butyl acetate will be de-listed as a VOC. At that time, this product will have a VOC of <0.4 pounds/gallon.

EVER CLEAR, once crosslinked, with the recommended aliphatic polyisocyanate (Part B), the resultant urethane coating will exhibit the durability, excellent hardness/flexibility balance, and chemical resistance expected from a high performance coating.

EVER CLEAR is formulated for application on all metals including copper, brass, bronze, steel, aluminum, zinc, stainless steel, as well as wood, terracotta, ceramic and concrete. **EVER CLEAR** will provide unusual under-film tarnish protection as well as superior resistance to ultra-violet light, and remarkable resistance to salt air atmosphere.

RESISTS:

- Abrasion
- Hydrolysis
- Oxidative discoloration
- Impact
- Solvents
- Staining
- Yellowing & blistering
- UV & weather resistant

USES:

- Interior/exterior copper, bronze & brass surfaces
- Lighting fixtures
- Marine hardware
- Steel & Wood
- Architectural trim and hardware
- Terra cotta
- Concrete
- Buildings and walls

SURFACE PREPARATION: Surfaces to be coated must be clean, dry and free of dirt, dust, grease, oil, wax and other contaminants. Do not use acetone for any type of surface prep or treatment. To achieve good bonding and drying, the ambient temperature should be between 50°F and 80°F and humidity below 50%.

APPLICATION INSTRUCTIONS: Spray application is the preferred method, although brushing or flow coating may be used. If applying with a brush, use a high quality natural bristle brush. When using the matte formula, brushing is not advised. Any dust collected on the cleaned surface should be blown or wiped off with a clean cloth before coating is applied. Coating is applied in full coats. The second coat should be applied in about an hour. If you are unable to recoat in a timely manner, you may lightly sand the first coat, so that the second coat will adhere. Take measures to minimize dust and debris falling on your coated pieces. Metal surfaces should be room temperature (70°F - 85°F).

MIXING: Thoroughly mix Part A, then mix Part A with Part B in the recommended 3:1 ratio for 10 minutes. It is important to mix thoroughly to fully blend the two parts. A 10 to 15 minute sweat-in period in an opaque container is recommended before using the coating. ("Sweat-in" refers to the waiting period required between the time you mix and the time you can start applying a two-part product such as Ever Clear) Allow the mix to adjust to room temperature (70°F - 85°F). Filter with supplied 18 micron filter. Pot life is 6 - 10 hours. **DO NOT USE AFTER THIS AMOUNT OF TIME.**

*Part B is sensitive to air and light - do not open and close often if not using the entire amount.

SPRAY APPLICATION: Thinning is not necessary when using spray equipment. If thinning is desired, use up to 20% Sculpt Nouveau Solvent Thinner. For best results use a good quality HVLP sprayer. Make sure the spray equipment is clean and at room temperature. Spray at the lowest possible PSI so the coating lays down lightly, usually about 20 PSI with a 1.2 - 1.4 orifice tip.

DRYING TIME: The coating air dries to the touch in less than 1 hour - depending on room temperature and may be force dried faster at 250°F. The coating air dries solid/hard film within 4 hours, depending on coating thickness, temperature, etc. **Full cure dry time will be 5 - 7 days.**

PACKAGING: 16 oz, 32 oz, 1 Gallon, Double Matte, Matte, Satin & Gloss

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TECHNICAL INFORMATION:

Vehicle Type:	Acrylic Urethane
Coverage Per Gallon - At Recommended Film Thickness:	125 sq. ft.
Recommended Dry Film Thickness:	0.5 - 1.0
Number of Coats:	2 Minimum
Thin With: (Not necessary for spraying)	Sculpt Nouveau Solvent Thinner
Pot Life:	6 - 10 Hours
Dry Time:	To Touch - 1 hr. Solid Hard Film - 4 hrs.
Recoat Time:	1 hr.
Cure Time:	5 - 7 Days
Clean-up:	Solvents

Application Conditions

Surface Temperature:	70°F - 85°F
Ambient Temperature:	50°F - 80°F
Humidity:	< 50%

FILM PROPERTIES:

(2 MILS Dry on Treated Aluminum)

Gloss, 20° / 60°	86 / 92
Pencil Hardness	H
Mandrel Flex	Pass 1/8"
Impact Resistance, dir/rev.	70 / 30

Chemical Resistance, 30 min. spots:

10% HCl, 10% NaOH	OK
Gasoline, motor oil	OK
Isopropanol	OK

TYPICAL PROPERTIES:

These properties are typical but do not constitute specifications.

Appearance	Translucent
Weight Solids %	32.0
Volume Solids %	26.3
NCO/OH Ratio	1.1/1.0
Non-Volatiles %	58-60
Viscoisty Brookfield LVT, cP	3000-7000
Density (lbs/gallon)	8.46
HEW (hydroxyl equivalent weight)	650
Flash Point (°Setaflash closed cup)	27°C (80.6°F)
Molecular Weight, weight average	20,000
VOC, lb/gal by weight	2.25
Tg, °C	55