

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, stainless steel, zinc, as well as wood, terracotta, ceramic and concrete. It 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: The life and quality of a coating depends greatly upon the preparation of the receiving surface. Surfaces to be coated should be dry and free of contaminants, moisture and oils. Careful selection of commercial metal cleaners is crucial because of the possibility of introducing harmful residues. Sculpt Nouveau's Metal Cleaner and Degreaser is the recommended cleaner. **NEVER USE ACETONE OR ANY TYPE OF SOLVENT FOR SURFACE PREP OR TREATMENT.** The Ever Clear and metal surfaces should be normalized to room temperature before use (70°F - 85°F).

APPLICATION INSTRUCTIONS: Spray application is the preferred method. Although brushing or flow coating may be used, spraying will achieve the best results. If applying with a brush, use a high quality natural bristle brush. It is not recommended to brush apply the matte formula.

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 apply the second coat 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 products. Metal surfaces should be room temperature (70°F - 85°F). Do not use when the temperature is over 85°F or under 50°F.

MIXING: It is recommended to mix Ever Clear with a paddle mixer on a drill at low speed. Thoroughly mix Part A, then mix Part A with Part B, in the required 3:1 ratio, for 10 minutes. It is important to mix thoroughly to fully blend the two parts. Allow a 10 to 15 minute sweat-in period, in an opaque covered container, before using the coating. (sweat-in period is the time between mixing the two parts together and the time you can start applying) Allow the mix to adjust to room temperature (70°F - 85°F). Filter with supplied 18 micron filter. Part B is sensitive to air and light. Do not open and close can often if not using entire amount. Do not open Part B with the intent of not using all of it when the humidity is over 45%. Pot life is 6 to 10 hours once mixed. **DO NOT USE AFTER THIS AMOUNT OF TIME.**

SPRAY APPLICATION: For best results use a good quality HVLP sprayer. The spray equipment must be clean and at room temperature. Thinning is not recommended for spray application. If you must thin, use only Sculpt Nouveau's Solvent Thinner and not more than 10%. **PROTECT SURROUNDING AREAS FROM OVERSPRAY!**

DRYING TIME: The coating air dries to the touch in less than 1 hour, depending on room temperature. The coating will air dry solid/hard film within 4 hours, depending on coating thickness, temperatures, etc. Full cure dry time is 5 - 7 days. Before introducing the coating to a wet environment it is recommended to cure 20 days for full chemical and water protection.

PACKAGING: 16 oz, 32 oz, 1 Gallon, Matte, Satin, Gloss & Super Gloss, 12 oz - 2 part activated Aerosol Spray Cans

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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