Sculpt Nouveau
Patinas and Metal Finishes

Ever Clear

Technical Data Sheet

Description: Sculpt Nouveau Ever Clear is a strong, two-part polyurethane that offers the best protection for all metal surfaces including bronze, brass and copper. Use Ever Clear on your toughest jobs such as countertops and in ocean environments. Ever Clear also works well on wood, terracotta, ceramics and concrete. Due to its unique chemistry, Ever Clear provides strong under-film tarnish protection, excellent UV resistance and salt/corrosion prevention. This coating is ideal for preserving metal finishes like patinas and metal coatings.

Safety: Work in a clean, well-ventilated area. Always wear a vapor respirator, protective clothing, eye protection and gloves when using this product.

Storage: Store in temperatures between 50-90°F.

Surface Prep: For bare metal, sand (60-80 grit) or sandblast the surface. Next, clean the metal with Sculpt Nouveau Metal Cleaner and Degreaser and a Scotch-Brite pad, then rinse with water. Sculpt Nouveau Metal Cleaner and Degreaser is the only recommended cleaner. Other commercial metal cleaners leave harmful residues behind that weaken clear coats. DO NOT use Acetone or any solvent based cleaners. Cleaning the surface is mandatory after sanding or handling. If you are using Ever Clear over another coating or patina, follow all the instructions for that coating or patina, including the clear coat portion.

Important Note: Unseen moisture may be on the metal surface. This is most common on humid days or in the morning hours. The moisture will be undetectable to the bare eye. Trapped moisture causes cloudy coatings, bonding problems and oxidation/rust. To prevent this, heat the metal with a torch or heat gun prior to clear coat application. You should notice a shadow of water evaporate across the surface. Allow the metal to cool to room temperature for a few minutes, then apply the clear coat.

Handling: Loosen the lid carefully as the container may be under slight pressure. Thinning should not be necessary, but if you want to thin, or if you have a thick or powdery patina on the surface, thin only with Sculpt Nouveau Solvent Thinner up to 10%. DO NOT over thin. This will weaken the strength of the coating and decrease the coating thickness. If you thin Ever Clear, you may need to apply extra coats. We recommend at least two coats, but more will provide improved protection.

Mixing: With a mechanical mixer, thoroughly mix Part A, then mix Part B into Part A at the required 3:1 ratio (Part A:Part B) for a minimum of 5 minutes. Filter the mix with the supplied filter into your desired sprayer. Once mixed, the pot life is 6-8 hours. DO NOT use after this time.

Application: Plan to spray 2-3 light coats. Make sure the first coat saturates the patina. Use a 1.2 tip at about 18-25 psi from an HVLP sprayer. It should look as though the Ever Clear is being atomized through a spray can. Allow 1 hour to dry between coats.

Cure Time: Ever Clear usually cures in 3-5 days after the final application. Cure times will increase as the temperature drops. DO NOT force dry with heat or air.

Cleanup: Sculpt Nouveau Solvent Thinner or Toluene works best for cleanup.

Quick Reference Data

Physical State: Transparent Liquid	Recoat Time: 1 hour
Coverage: Approx. 250 sq. ft. per gallon	Application Temperature: 50-80˚F
VOC: 2.25 lbs./gal.	Application Humidity: <45%
Pot Life: 6-8 hrs.	Thinner: Sculpt Nouveau Solvent Thinner
Recommended Coats: 2-3	Cleanup: Solvent Thinner or Toluene

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General Properties

Type:	Acrylic Urethane
Coverage:	250 sq. ft. per gallon
Recommended Dry Film Thickness:	0.5-1.0mm
Recommended Coats:	2-3
Thinner:	Sculpt Nouveau Solvent Thinner
Pot Life:	6-8 hrs.
Dry Time:	1 hr. to touch
Recoat Time:	1 hr.
Cure Time:	3-5 days
Cleanup:	Solvent Thinner or Toluene
Application Temperature:	50°F - 80°F
Application Humidity:	<45%

Film Properties (2mm Dry on Treated Aluminum)

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

Chemical Resistance (30 min. spots)

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

Typical Properties

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:	8.46lbs./gal.
HEW (hydroxyl equivalent weight):	650
Flash Point (°Setaflash closed cup):	27°C
Molecular Weight, weight average:	20,000
VOC by weight:	2.25 lbs./gal.
Tg:	55°C

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