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ROLCO ACRYLIC TOPCOAT

ROLCO ACRYLIC TOPCOAT for gilding, artwork, hobby & graphic arts use is a non-reactive premium water clear vehicle composed of acrylic copolymers with outstanding characteristics. It's viscosity allows application by brush or spray over gilders leaf requiring protection from abrasion, water, ultra-violet and chemical resistance. It is not intended for use as an architectural coating.

IT IS AVAILABLE IN GLOSS OR SATIN FINISH

ULTRA-VIOLET LIGHT RESISTANCE: Light source, 1,000 microwatts per second, equivalent to one year sunlight exposure of 1 mil clear film showed a slight barely discernable yellowing.

GARDNER COLOR INDEX: Initial, less than 1. Final, 2 maximum.

SWARD HARDNESS INDEX: 62 typical.

FLEXIBILITY: Passes 3/16" mandrel.

CHEMICAL RESISTANCE: 2 mil dry film draw down on cold rolled steel. Dried at room ambient temperature for 96 hours. Reagent spot check after 24 hours:

50% NaOH	No effect
In HCl	No effect
66° Be H ₂ SO ₄	Slight blister
20% Ammonia	No effect

The following chemical resistant test chart utilized ACRYLIC TOPCOAT films where the films were continuously exposed to the solvents, chemicals and products. Where the film was softened by a solvent material, the film re-developed when the material was allowed to evaporate undisturbed.

The resistance of the films were based upon continuous unbroken films on steel and glass. Results may differ in applications where the films are compromised and the test reagent was allowed to get behind the film and undercut the substrate.

CHEMICAL RESISTANCE CHART

CHEMICAL

ACRYLIC TOPCOAT

NaOH (10%)	No effect
HCl (10%)	No effect
H ₂ SO ₄ (10%)	Slight stain
Battery Acid	Slight stain
Citric Acid (10%)	No effect
Acetic Acid (10%)	No effect
Ethyl Alcohol	No effect
Isopropyl Alcohol	No effect
Motor Oil	Slight softening
Grease	No effect
Anti Freeze	No effect
Orange Juice	No effect
Lemon Juice	No effect
Mustard	No effect
Ketchup	No effect
Iodine	Slight stain
Cooking Oil	No effect
Alkanolamines	No effect
Gasoline	Slight softening
Aviation Gasoline	Slight softening
Jet Fuel	Slight softening
Brake Fluid	Slight softening
Skydrol	Slight softening
Salt spray resistance	Exceeds 500 hours

NOTE: Consult the product MSDS prior to its use. Request a copy from your dealer or from Rolco Labs.

DIRECTIONS FOR USE:

GILDING:

Generally real gold leaf need not be protected from the elements unless it may be subject to abrasion, handling, etc. Due to the fact that all leaf is extremely thin, it contains many microscopic interstices (holes), and with topcoats containing solvents can cause the solvents to penetrate through these microscopic openings and cause the size to bubble or breakdown. It is recommended that the gilder wait the prescribed number of days for each type of size prior to over-coating gold or other metal leaf.

With silver leaf however, the gilder should, use the **ROLCO QUICK DRY** size and protect with the **ACRYLIC TOPCOAT** within 4 to 6 hours after gilding in order to prevent the silver leaf from oxidizing or discoloring before sealing. Insure that the topcoat completely covers the leaf as well as sealing all edges. Other gilding leaf utilizing **QUICK DRY** size can be protected in within 12 hours.

It is best that the gilder test a small area or similar substrate to insure that the size has dried sufficiently as temperature, humidity and size thickness play a part in effecting a complete dry.

OTHER SURFACES:

ROLCO'S ACRYLIC TOPCOAT is also an excellent protectant for other graphic art surfaces such as metallic finishes. It will not change the basic nature of any colors.

APPLICATION:

Surface preparation is important to the durability and integrity of the finish. All surfaces must be clean, dry and free from contaminants such as oils, waxes, dust and fingerprints.

The **ACRYLIC TOPCOAT** can be brushed or sprayed onto a properly prepared and completed surface. In as much as the topcoat may appear uniform in appearance, it should be stirred thoroughly. Stir slowly to prevent entrapment of air and thereby creating bubbles when applied. Ideal conditions for application is that the topcoat should be applied at 65 to 75 degrees Fahrenheit and 40 to 60 degrees of relative humidity. Differing conditions can compromise film integrity. The topcoat should be applied at packaged consistency. If thinning is required, use Mineral Spirits sparingly. If **BRUSHING**, use a high grade, soft, natural bristle brush. **SPRAYING**, is a function of the gilder's equipment and technique. Insure that a sufficient level lay-down is accomplished. Viscosity, atomization and technique are paramount for a proper film coverage. Generally an airless or HLVP sprayer permits a more controlled level film. Use a misting motion and prevent puddling in crevices. Allow to dry 4 hours prior to applying a 2nd or 3rd coat. Dry time is 1 to 3 hours depending upon temperature, humidity and film thickness. Hard cure is attained after 10 to 12 hours or overnight. For cleanup use lacquer thinner or naphtha.

One can assume that the coverage for the topcoat on a properly sealed and prepared surface is approximately 143 square feet per gallon at a nominal brushed thickness of 2 mils. Generally 2 or 3 coats will attain this thickness.

The conditions and use of this product are beyond Rolco's control. Directions, information, performance and results when used alone or with products of others are without warranty or guarantee, expressed or implied.