POXY COAT® CLEAR

Technical Data - Architect Specifications

#1801 – High Gloss #1802 – Satin Finish

Low VOC Clear Varnish Coating

Description: A catalytic terminated coating that under goes a high degree of curing when reacted with soya and silicone alkyd resins. The cured film possesses exceptional film strength, flexibility, chemical and solvent resistance, and color stability. This material should be used where requirements for color, hardness, chemical or abrasion resistance, peel strength, or related film integrity offset the cost premium. This coating will afford general chemical resistance as outlined in Category 5 of NACE standard for polyurethane modified coating for atmospheric exposure.

Recommended for: Heavy duty home, farm, industrial and marine service, furniture, doors, wood floors, masonry, metals and moderately corrosive, chemical environments. Use in situations where excellent color stability over long periods is desirable (note: may amber with age).

Not recommended for: Prolonged immersion service, use on treated wood or severely corrosive environments.

Physical Characteristics:	Pigment:	None
	Vehicle:	Polyurethane modified soy and silicone alkyd Resins
	Solvent/Clean Up:	Mineral Spirits
	Percent Solids/wt.:	64%
	Percent Solids/vol.:	56%
	Recommended DFT:	1.0 to 2.0 mils DFT
	Coverage/gallon:	898 sq. ft.@ 1 mil. 449 sq. ft. @ 2 mils. (zero loss) (depends **on porosity)**
	Dry time:	6 hours (set to touch) allow overnight cure for proper, thorough dry).
	Weight:	7.86 lbs./gal.
	Viscosity:	70 ‡ 5 KU
	Color:	Clear
	Finish:	#801 – High Gloss #802 – Satin Finish
	VOC:	340 gms./ltr.
	Shelf Life:	Minimum 12 months

General Resistance Guide

Weather: Excellent resistance to weather, including harsh marine environments. (color may amber with age)

Surface Preparation: Apply to clean, dry surface, free of all contaminants. Poxy Coat® Clear may be applied over "Prime Time™", other suitable primers or build coats of most epoxies. May be applied over water based, latex or oil based stains. Do not use over paste wood filler, shellac or wood sealers containing sterates.

NOTE: *Refer to surface preparation required for selected primer.*

APPLICATION EQUIPMENT RECOMMENDATION:

Conventional Spray: Binks Model 18 spray gun or equal spray with 3/8" material hose, a 5/16" air hose, a #67 fluid nozzle (.086 orifice size), #67 PB air nozzle and #67 fluid needle.

Airless: Pump 23 to 1 Monarch (Graco) high pressure filter 100 mesh. Fluid hose 1/4"x50'. Airless gun 208-663 tips .011-.015. Min pressure to avoid fingering 1500 PSI

Application Procedure:

1. Pre-clean all equipment with Mineral Spirits.
2. May be brushed, sprayed or rolled.
3. Spray - adjust gun to obtain 8" fan at 12"-14" from surface-overlap each pass to insure no holidays, giving special attention to corners, weld and rough areas. Recommended film thickness is 1.0 mils dry and 2.0 mils wet film thickness.
4. Thinning - not recommended by non-professionals. Not to be thinned in geographical areas where thinning will result in violating VOC regulations.
5. Clean all materials thoroughly with mineral spirits.

NOTE: *Avoid application at excessively thick film thickness or abnormally high humidity, as bubbling may occur and film may not dry or cure properly.*

CURING TIME:

1. To handle - 6 hours at 75° F.
2. To Recoat – 6 to 12 hours
3. Full cure make take in excess of 60 days depending upon temperature, moisture, humidity and film thickness. Standard cure time is normally 6 days or less with recommended film thickness and standard environmental conditions.
4. Pot Life - Not applicable

Caution: Certain volatile solvents are flammable. Keep away from heat and open flame, avoid prolonged breathing of vapors. Avoid contact with skin or eyes. In the event of skin rash or eye contact, flush immediately with plenty of water. For eyes, obtain prompt medical attention. When applying in closed areas, provide adequate forced fresh air ventilation and avoid breathing concentrated vapor

MATERIAL	MILD FUMES	SPLASH & HEAVY FUMES
Acid	Good	Good
Alkali	Good	Good
Alcohol	Good	Good
Salts	Good	Good
Solvents	Good	Good
Water	Good	Good
Petrol Products	Good	Good

(This chart is only recommended as a guide)

Note: Supercedes all other technical sheets.

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