

## **POLY-PRO**

### Eco-Friendly Polyurethane Topcoat

**Description:** Poly Pro is a high solids, two component, water-based aliphatic polyurethane that provides performance properties equal to conventional solvent-based catalyzed urethanes without the associated health and environmental problems. It offers improved chemical resistance, excellent gloss, easy cleanability, and superior abrasion resistance. Resistance to yellowing from U.V. light is excellent.

**Areas of Usage:** Poly Pro has been developed as a high performance finish for various seamless flooring and as a topcoat over full-chipped coating systems where odor cannot be tolerated. It is an ideal top coat for areas that require maximum gloss retention, ease of cleaning, and resistance to heavy foot traffic. Areas of application would include clean rooms, hospitals, high traffic retail areas, patios and decks.

<b>Features / Advantages:</b>	Clear	Chemical resistance
	Low VOCs	UV resistant
	Low odor	Superior abrasion resistance
	Excellent gloss retention	Roller or brush application
	Cleanability	High film-build capability

**Surface Preparation:** Poly Pro is to be used as a topcoat over previously EcoCorflex-coated surfaces. Surface must be clean of dust and contaminants. Previously coated surfaces must be mechanically cleaned and abraded with 80- to 100-grit sandpaper to ensure inter-coat adhesion.

**Technical Data:** Note: Data / results may differ due to statistical variations, mixing methods and equipment, temperature, application methods, actual site conditions and curing conditions

**Packaging:** Part A resin and Part B catalyst are in separate containers – 1 gallon Part A container and 0.5 gallon Part B container (i.e., 1.5 gallon kit; 15 lbs).

**Mixing Ratio:** Two parts resin (Part A) to one part catalyst (Part B), i.e., 2:1 ratio by volume; the mixture may be diluted with water up to 2: 1: ½ (water).

**Application:** Low pressure sprayer, polyester brush and 9", 14" or 18" rollers with microfiber nap.

Dry times vary depending upon weather conditions.

**Average Dry Time at 77°F (25°C):** **Dry to Touch:** 6 hours; **Waiting Time Between Coats:** 2 hours; **Light Traffic:** 18 hours; **Full Cure:** 7 days.

Higher temperatures and lower humidity will accelerate cure times. Lower temperatures and higher humidity will lengthen cure time.

**Resistance To:** Resistant to stains, chemicals and abrasion (e.g., urine, blood, betadine, whiskey, black ink, brake fluid, gasoline, Skydrol, xylene, MEK, 50% sodium hydroxide, 10% hydrochloric acid, 10% sulphuric acid, 10% acetic acid)

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Reducing:	May be thinned with water up to 15% (2 Part A: 1 Part B: ½ Water) during application to keep a low viscosity. Any reduction water must be added after part A and B have been drill mixed.
Finish:	High gloss (60°) = 90
Color:	Clear
% Solids (Wt):	52%
Pigment Type:	Chemical resistant
Vehicle Type:	Water-based aliphatic polyurethane
Viscosity:	60 sec on Zahn 2
VOC:	94 g/L
Thickness:	Recommended installation of 4 mils per coat
Pendulum Hardness:	175 sec (ASTM D-4336)
Tabor Abrasion:	39 mg. Loss (1000 gm. load 1000 cycles, CS 17 wheel)
Compression Strength:	Not available
Pot Life:	<p>Pot life applies to material poured onto the substrate following preparation.</p> <p><b>Pot Life (77 degrees, 1 quart mass) = 3 hours.</b></p> <p><b>Pot Life (95 degrees, 1 quart mass) = 50 minutes.</b></p> <p>If ambient temperature is greater than 77°F and / or RH greater than 50%, pot life is dramatically shortened.</p>
Shelf Life:	12 months at 77°F (25°C) in unopened containers (when Parts A and B are not combined)

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**Mixing:** Mix only that amount of material that can be used in a 2 hour period at 77°F. Higher temperatures reduce work time. In hot weather, it is advisable to mix smaller batches. Premix Part A before adding Part B. Mixing ratio is 2 parts A to 1 part B. Add part B slowly while mechanically agitating part A with a slow speed drill. Mix for 2 full minutes until completely homogenized. Material cannot be properly mixed by hand. After mixing Parts A and B, thin with water as needed (not to exceed 2: 1: ½).

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**Application Procedure:** Poly Pro should be applied 350 – 500 sq. ft. per gallon by sprayer, brush and roller. Do not allow to puddle or accumulate in joint areas. Applications heavier than 350 sq. ft. per gallon will create bubbles in the cured coating. If multiple coats are required and the material has cured for more than 24 hours, degloss with a black 3M high-profile pad or sand with 80- to 120-grit sandpaper.

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**Handling and Storage:** Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. Read the Safety Data Sheet before using. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

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**• KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • INDUSTRIAL GRADE • HANDLING AND INSTALLATION MUST BE PERFORMED BY ECO-CORFLEX-CERTIFIED APPLICATORS ONLY •**

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