ECO CorFlex
Molecular Industrial Polymers

Industrial Flooring

POLY-PRO II

Eco-Friendly Polyurethane Topcoat

Description:	Poly Pro II 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 II 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. *Where high gloss is not required, a "low sheen" product is also available.* Areas of application would include clean rooms, hospitals, high traffic retail areas, patios and decks.	
Features / Advantages:	Clear	Chemical resistance
	Low VOCs	UV resistant
	Low odor	Superior abrasion resistance
	Gloss & low sheen	Excellent gloss retention
	Cleanability	High film-build capability
Surface Preparation:	Poly Pro II 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 lint-free nap. *Only use when temperatures are 5°C above dew point.*	
Average Dry Time at 77˚F (25˚C):	Dry times will vary depending upon weather conditions. **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	

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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°; ASTM D523) = 90
Color:	Clear
% Solids (Vol):	58.5%
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
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:	Pot life applies to material poured onto the substrate following preparation. **Pot Life (77 degrees, 1 quart mass)** = 3 hours. **Pot Life (95 degrees, 1 quart mass)** = 50 minutes. If ambient temperature is greater than 77˚F and / or RH greater than 50%, pot life is dramatically shortened.
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).
Application Procedure:	Poly Pro II 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. Step-by-step application procedures are provided in standard operating procedures (SOPs) GFC-107 through GFC-118. All SOPs are on file with corporate Eco-CorFlex.
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.

• 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 •

All information provided by Eco-CorFlex concerning its products, including but not limited to, any recommendations and advice relating to the application and use, is given in good faith based on Eco-CorFlex's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Eco-CorFlex SOPs. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Eco-CorFlex's control are such that Eco-CorFlex assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of Eco-CorFlex product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application. Eco-CorFlex reserves the right to change the properties of its products without notice.

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