



SunClear ♦ EcoClear

POLYURETHANE (Water Base)

PRODUCT DESCRIPTION AND USE

EcoClear Polyurethane is a two component, water-based aliphatic polyurethane that provides an excellent combination of high gloss, hardness, stain resistance and gloss retention under heavy foot traffic. The material cures quickly, allowing light traffic in 4-6 hours. Resistance to yellowing and loss of gloss under UV light is excellent. For exterior applications, a special UV absorber package can be added to ensure long term UV resistance. EcoClear Polyurethane is user and environmentally friendly. It is VOC compliant in California.

EcoClear Polyurethane has been developed as a high performance finish coat for various seamless flooring, coating, and architectural concrete applications where odor cannot be tolerated. It is the ideal top coat for areas that require maximum gloss retention, ease of cleaning, and resistance to heavy foot and vehicular traffic. Typical areas of application would include clean rooms, driveways, hospitals, concrete counter tops and high traffic retail areas. EcoClear Polyurethane is also very well suited as a high performance coating for hardwood floors.

Chemical Composition

Polyester and acrylic polyols crosslinked with aliphatic polyisocyanate.

Colors

Clear and 16 standard colors. Available in high gloss or satin.

Limitations

- Application rate must be kept above 200 sq. ft. per gallon to avoid curing bubbles that can occur in heavy applications.
- Application over textured surfaces such as trowel-knockdown polymer concrete must be done with a $\frac{3}{4}$ inch nap roller and pulled tightly to avoid leaving excessive product in recessed areas.
- Work life is considerably shortened over 90 degrees F.
- Do not apply material if the humidity is over 85% and ventilation is poor. Improper cure will result.

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TECHNICAL DATA

Physical Properties

Mixing Ratio, by Volume	2-1
Solids Content, by Weight.....	53%
Solids Content, by Weight Pigmented.....	66%
VOC, grams/liter	50
Pot Life (77 degrees, 1 quart mass)	3 hours
Pot Life (90 degrees, 1 quart mass)	1 hour
Pot Life is reduced by increasing temperature and/or mass.	
Cure Times (77 degrees)	
Dry to Touch.....	4 hours
Light Traffic	6-8 hours
Full Cure.....	7 days

Performance Properties

Gloss (60°).....	90
Tabor Abrasion - (1000 gm. load 1000 cycles, CS 17 wheel).....	39 mg. loss
Pendulum hardness, sec (ASTM D-4336).....	175

CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION)

Urine.....	no effect
Blood	no effect
Whiskey	no effect
Black Ink.....	no effect
Brake Fluid	no effect
Gasoline	no effect
Skydrol.....	no effect
Xylene.....	no effect
MEK	no effect
50% Sodium Hydroxide	no effect
10% Hydrochloric Acid.....	no effect
10% Sulphuric Acid.....	no effect
10% Acetic Acid.....	no effect

GENERAL INFORMATION

Surface Preparation

EcoClear Polyurethane is intended to be used over primed surfaces. Surface must be sound and free of any type of contaminant which may interfere with proper bonding. Application over concrete requires the use of a primer. Previously coated surface must be mechanically cleaned and abraded with 100 grit sandpaper or sanding screen to ensure intercoat adhesion.

Mixing Instructions

Mix only that amount of material that can be used in a 3 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. Use a small “squirrel cage” mixer for mixing small amounts.

Thinning

Material is normally applied as received but may be thinned with water up to 10% during application to keep low viscosity. **Any reduction water must be added after part A and B have been mixed together.**

Application Recommendations

EcoClear Polyurethane should be applied 200-350 sq. ft. per gallon by brush, roller or airless sprayer. Applications heavier than 200 sq. ft. per gallon will create bubbles in the cured coating. Thin with small amounts of water if necessary during application to keep a low viscosity. Material can be recoated as soon as it has become tack free, usually 2-3 hours.

Recoat Information

EcoClear Polyurethane has excellent adhesion to itself for an indefinite period. However, the surface to be recoated must be clean and free of contaminants which may interfere with bonding.

Handling Precautions

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 Material Safety Data Sheet before using.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Sundeck Products USA, Inc. recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Sundeck Products USA, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.

WARRANTY INFORMATION

Sundeck Products USA, Inc. guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. SUNDECK PRODUCTS USA, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Sundeck Products USA, Inc. shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Sundeck Products USA, Inc. shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.