

Poly-Seal TopCoat

A Single Component, Economical, Aliphatic Topcoat for Concrete and Plywood

1.01 DESCRIPTION

Poly-Seal TopCoat is an economical, aliphatic, single component, liquid applied, moisture cured, urethane topcoat for use on concrete and plywood decks. Poly-Seal TopCoat is 150 VOC. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

1.02 FEATURES

- Excellent Weatherability
- Good Color Retention
- UV Stable

1.03 USES

- Concrete or Plywood Decks
- Most Metal, Wood, or Masonry Surfaces
- Pedestrian Traffic
- Resealing Existing Urethane Surfaces

1.04 COLOR

Contact us for availability as this is not a stocked product.

Light grey, medium grey, dark grey, tan, dark tan, chocolate custom colors are also available. Minimum order required. Please contact Roof Labs for details. See color chart for special provisions.

1.05 PACKAGING

1 gallon (3.78 liters) can
5 gallon (18.9 liters) pail
55-gallon drum, net fill 50 gallons (189 liters)

1.06 SURFACE PREPARATION

Refer to General and Safety Guidelines for complete information. Install a 100-200 sqft (9.3-18.6 sqm) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

1.07 MIXING

Before application, mix Poly-Seal TopCoat using a mechanical mixer (Jiffy Mixer) at slow speeds or by hand for at least 5 minutes. Mix Poly-Seal TopCoat thoroughly until a homogeneous mixture and color is attained.

When using a color pack system, "boxing" from one mixed pail to the next is recommended. Always save 1 gallon (1.89 liters) or more and mix into the next pail to prevent color variation. Likewise, with pre-tinted top coats, mix the last gallon or two from the previous batch into the new batch number. Box the last gallon of the last used batch numbers with the new batch number to prevent hue or shading variation.

APPLICATION

2.01 APPLICATION BASICS

The first coat of Poly-Seal TopCoat should be applied at the rate

of 1 gallon/100 sqft or 100 sqft/gallon (0.41 liters/sqm). For best results, airless sprayer or phenolic core roller may be used, but extra care should be taken not to cause air bubbles. Apply Poly-Seal TopCoat evenly over the entire deck resulting in 11±2 dry mils (278±50 microns). After 24 hours, proceed to the second coat.

Poly-Seal TopCoat may require more than one coat depending on the job specifications and requirements. When estimating material requirements, coverage rates tend to increase for subsequent coats of material. To obtain proper adhesion between coats it is imperative that re-coating be done within 48 hours.

Refer to individual Systems Description under System Specifications section of the Roof Labs catalog or website for specific coverage rates.

Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

2.02 CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum of 16 hours between each coat. If more than 48 hours passes between coats, reprime the surface with Roof Labs Primer before proceeding.

Allow 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic onto the finished surface.

Uncured Poly-Seal TopCoat is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time. To accelerate cure, topcoat accelerator may be used.

2.03 EQUIPMENT CLEANUP

Equipment should be cleaned immediately after use with an environmentally-safe solvent, as permitted under local regulations.

2.04 SHELF LIFE AND STORAGE

Poly-Seal TopCoat has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.05 - LIMITATIONS

- Surfaces must be dry, clean and free of foreign matter.
- Surface may be slippery when wet. Poly-Seal TopCoat may become flat and stained over time.

- Poly-Seal TopCoat has limited chemical resistance properties.
- Containers that have been opened must be used as soon as possible.
- Do not dilute under any circumstance.

The following conditions must not be coated with Roof Labs deck coating systems or products:

1) On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks, or areas where hydrostatic pressure is or may be present, without the use of Enviro-Grip™ 404FC primer. Roof Labs Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.

2) Concrete must exhibit 3000 Roof Labs minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.

3) New concrete must be cured for 28 days unless otherwise approved by Roof Labs in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power-washed before coating application.

4) Concrete cleaning (see General and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of pressure washer. Peel and adhesion tests are recommended.

WARNING: This product contains isocyanates and solvent.

TECHNICAL DATA: Poly-Seal TopCoat <small>(250 VOC Based on draw down films)</small>		TECHNICAL DATA: Poly-Seal TopCoat <small>(100 VOC Based on draw down films)</small>	
Theoretical Coverage Rate: 1 gallon/100 sqft (0.41 liters/sqm)		Theoretical Coverage Rate: 1 gallon/100 sqft (0.41 liters/sqm)	
Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft	12 ± 2 mils <small>(305 ± 50 microns)</small>	Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft	12 ± 2 mils <small>(305 ± 50 microns)</small>
Hardness, ASTM D-2240 Shore A	90 ± 5	Hardness, ASTM D-2240 Shore A	90 ± 5
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli <small>(70 ± 8.8 kN/m)</small>	Tear Resistance, Die C, ASTM D-624	400 ± 50 pli <small>(70 ± 8.8 kN/m)</small>
Tensile Strength, ASTM D-412	2700 ± 300 psi <small>(18.6 ± 2 MPa)</small>	Tensile Strength, ASTM D-412	2700 ± 300 psi <small>18.6 ± 2 MPa</small>
Total Solids by Weight, ASTM D-2369	80 ± 2%	Total Solids by Weight, ASTM D-2369	85 ± 2%
Total Solids by Volume, ASTM D-2697	74 ± 2%	Total Solids by Volume, ASTM D-2697	83 ± 2%
Viscosity, at 75°F (24°C)	2500 ± 700 cps	Viscosity, at 75°F (24°C)	3500 ± 700 cps
Ultimate Elongation, ASTM D-412	200 ± 25%	Ultimate Elongation, ASTM D-412	200 ± 25%
Specific Gravity	1.16 ± 0.1	Specific Gravity	1.20 ± 0.1
Volatile Organic Compounds ASTM D-2369-81	1.87 lbs/gal <small>(225 gm/liter)</small>	Volatile Organic Compounds ASTM D-2369-81	0.83 lbs/gal <small>(99 gm/liter)</small>
Solar Reflective Index	90	Solar Reflective Index	90

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Roof Labs Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with Roof Labs Products or have undergone training in application of Roof Labs Products. Published technical data and instructions are subject to change without notice. Contact your local Roof Labs representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY

Roof Labs warrants its products to be free of manufacturing defects and that they will meet Roof Labs current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Roof Labs of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Roof Labs shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Roof Labs shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Roof Labs reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Roof Labs makes no claim that these tests or any other tests, accurately represent all environments.