



POLYPRIME-SC™

SINGLE COMPONENT PRIMER

Revised 07.05.11

DESCRIPTION

POLYPRIME-SC™ has been designed to function as a high-performance, single-component, moisture-cure, urethane primer system for use on concrete. It's low viscosity allows it to penetrate into porous surfaces, leaving a bubble-free coating. Working time is adjustable by selective addition of catalyst. It also exhibits a low sensitivity to substrate moisture, leaving only minimal bubbling when applied to damp surfaces.

COLOR

Cured material is amber, translucent with light musty odor.

SURFACE PREPARATION FOR CONCRETE

Remove dust, dirt, oil, latent, curing compounds, concrete sealer, etc. from surface by power wash, acid etch, grit blast or profiling equipment. The prepared concrete surface is to be clean, dry, hard/dense, free of cracks and holes with a slightly rough surface. For application on new concrete, refer to Specialty Products, Inc.'s Concrete Surface Preparation Guide.

Contact a SPI representative for surface preparation guideline publications.

Note: If "bug holes" or "capillarities" are present on the surface, an approved grout or filler may be used to minimize out-gassing, and the resultant "craters" in the SPI Polyurea topcoat.

APPLICATION

- Concrete and wood primer for polyurethane and polyurea spray coatings.
- Industrial flooring, roofing, decking, truck bed liners, pipeline, and tank coatings.
- Brushed or rolled on application preferred over air assist.

ADVANTAGES

- No VOCs.
- Penetrates and seals the surface, leaving a smooth, pinhole, and bubble-free coating.
- Excellent adhesion to a variety of substrates.
- Good physical properties.
- Outstanding stability at low temperatures.
- Defoamers or Deaerators can be used to further minimize pinholes.



SPI - The Single Source Solution Since 1974
Serving the Plural Component Industry

WET PROPERTIES

Solids by Volume	100%	
Recommended Spread Rate @ approx 200 – 500 sq. ft. per gallon (18.5 – 46.5 m ² per gallon)	Wet mils	3 – 8 mils
	Dry mils	3 – 8 mils
Flash Point	>200°F (93°C)	
Weight per gallon (mixed)	8.8 lbs (4kg)	
MVT (ASTM E96 – 80 perms)	8.8 lbs (4 kg)	
Shelf Life Unopened Containers @ 77°F (25°C)	6 months	

TYPICAL PHYSICAL PROPERTIES

Tensile Strength	3300 psi (22.94 mpa)
Elongation @77°F (25°C)	85%
Tear Resistance	440 PLI (77.04 KN/m) ± 50
Polyurea Topcoat Adhesion	>500 psi (3.48 mpa)
Typical Film Thickness	3 – 5 mils
Minimum Re-Coat Time	1.5 hours
Maximum Re-Coat Time	18 hours
Service Temperature	-60°F - +250°F (-50°C - +121°C)

CURING SCHEDULE

Tack Free (to touch)	1.5 hours
Gel Time	1.5 – 2.5 hours
Tack Time	2.5 – 3 hours

GENERAL SAFETY, TOXICITY & HEALTH DATA

Material Safety Data Sheets are available for this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. **CHEMTREC EMERGENCY NUMBER 1-800-424-9300**

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact of the liquid or spray mist.

EYE PROTECTION: Chemical safety goggles. If there is a potential of splashing, use a full face shield.

SKIN PROTECTION: Gloves should be neoprene, nitrile rubber, or butyl rubber. Protective clothing should be selected and used in accordance with 'Guidelines for the Section of Chemical Protective Clothing published by ACGIH.

INGESTION: Do not take internally. It is believed ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

RESPIRATORY PROTECTION: Use a respirator approved for isocyanates and organic vapors. If you are not sure or not able to monitor levels, or if you are spraying in an enclosed/indoor area use MSHA/NIOSH approved supplied air respirator. Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Product & Equipment Technical Assistance
24 hours / 7 days a week (800) 627-0773

WARNING

The behavior, degree of hazard and/or toxicity of the products referred to in this publication in manufacturing processes and their suitability in any given end-use environment are dependent upon various conditions such as chemical compatibility, temperature, and other variables, which may not be known to SPI. It is the sole responsibility of the buyer or user of such products to evaluate the manufacturing circumstances and the final product(s) under actual end-use requirements and to adequately advise and warn future purchasers and users thereof.

Products referred to in this publication may be hazardous and/or toxic and require special precautions in handling. A buyer should obtain Material Safety Data Sheets from SPI containing detailed information on hazardous and/or toxicity of the products contained herein, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards. The Product(s) described herein have not been tested for, and is therefore not recommended or suitable for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended or likely, or for uses for which implantation within the human body is intended, and SPI assumes no liability for such uses.

LIMITATIONS

- This product is for professional use only.
- Minimum material/container temperature for application is 60°F (15 °C).
- Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, CO₂ created pressure can develop. Do not attempt to use contaminated material.
- Undried air exposed to liquid components will reduce physical properties of the cured coating.

WARRANTY

Specialty Products, Inc. has no role in the manufacture of the finished polymer other than to supply the component. It is vital that the person applying this product understands the product and is fully trained and certified in the use of equipment.

Specialty Products, Inc., an Alaska corporation, warrants only that the component of this product shall conform to the technical specifications published in the product literature.

The quality and fitness of the product is dependent upon the applicator. There are no warranties that extend beyond the description on the face of this instrument.

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Specialty Products, Inc. makes no warranty as to the quality of any product modified, supplemented, tinted, or altered in any way after it leaves the manufacturing plant. Specialty Products, Inc. does not warrant that this product is suitable for use as a liner for potable water containers. Use of this product in a potable water container could be hazardous to health if it is improperly processed or applied.

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The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

The aforementioned data on this product is to be used as a guide and is subject to change without notice.

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