

• TRUSTED QUALITY SINCE 1921 •

**RUST-OLEUM®****RUST-OLEUM® HIGH PERFORMANCE  
PREMIUM POLYURETHANE 1085 BASE COAT****DESCRIPTION AND USES**

Rust-Oleum® High Performance Premium Polyurethane 1085 Base Coat is a high solids, low VOC, low odor, single-component urethane base coat. Premium Polyurethane 1085 Base Coat is used as part of a restoration coating system or repair material for approved existing roofing substrates. The system is installed in a two coat process with reinforcement at designated areas of the roof.

**PRODUCT FEATURES**

- Low temperature application, apply down to 40°F
- Restores Acrylic Coatings, Weathered Single-Ply, Built-Up, Modified Bitumen, Concrete roofs and more

**PRODUCT**

SKU	DESCRIPTION (5 Gallons)
381659	Gray

**COMPANION PRODUCTS**

High Performance Premium Polyurethane 1085 Primer  
High Performance Premium Polyurethane 1085 Top Coat

**PRODUCT APPLICATION****SURFACE PREPARATION**

Surface must be clean, dry, in sound condition, and free of dirt, debris, and contaminants. Wet insulation must be identified and replaced. Deficient areas of existing system must be repaired. All repairs should be made with like materials matching the existing components and allowed to properly cure prior to application of liquid-applied products. Allow new concrete to cure for a minimum of 28 days and until moisture, RH, and compressive strength values reach an appropriate level. Concrete surfaces must be shot-blasted to a an ICRI 3-6 surface profile.

Metal flashing surfaces and coated metal including fluoropolymer/PVDF coatings such as Kynar® (Registered trademark of Arkema Inc.) and Hylar® (Registered trademark of Solvay Solexis Inc.) must be ground to clean bright metal free of rust and primed prior to application.

If the surface has a pre-existing coating, paint, or sealant an adhesion/compatibility test is required.

**WARNING!** If you scrape, sand or remove old paint from any surface, you may release lead paint dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE; ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

**PRODUCT APPLICATION (cont.)****SURFACE PREPARATION (cont.)**

For applications on EPDM and TPO Single-Ply roofs, test applications of the entire Premium Polyurethane 1085 system are required to check for potential swelling of the membrane. Please contact Rust-oleum for testing and surface preparation recommendations.

**PRIMING**

Premium Polyurethane 1085 Base and Top Coats should be topcoated within 72 hours of application. If cured base or top coat is exposed for longer than 72 hours, an application of Premium Polyurethane 1085 Primer will be required to promote adhesion between coats. Review the recommended primer technical data sheet for specific product and application information.

**DETAIL/THREE-COURSE APPLICATION**

Install a three-course application on all drainage components, field laps/seams, flashing base and vertical laps/seams, penetrations, etc. following Rust-Oleum detail guidelines. Install the three-course application by applying Premium Polyurethane 1085 Base Coat. Fully embed reinforcement fabric into the wet base coat using a brush or roller until reinforcement is fully saturated and is free of voids, wrinkles, air pockets, standing fibers, etc. Then fully encapsulate the fabric with an additional application of Premium Polyurethane 1085 Base Coat.

**ACCEPTABLE ROOF SURFACES**

Smooth BUR, Concrete, Smooth & Granule Modified Bitumen, Weathered Single-Ply

**NOTE:** Adhesion test may be required. Consult with your Rust-Oleum representative.

**APPLICATION**

Adhesion test may be required. Consult with your Rust-Oleum representative.

Once detail work has been completed and cured, install Premium Polyurethane 1085 Base Coat followed by Premium Polyurethane 1085 Top Coat over the cured base coat.

Do not thin or alter product. Apply only when air, material, and surface temperatures are between 40-110°F (4-43°C). Minimum temperature must be rising following application. Do not apply when dew point is within 5°F (2.7°C) of ambient temperatures. Do not apply when precipitation, fog or dew is imminent prior to cure of the product.

High Performance Premium Polyurethane 1085 Base Coat should always be mixed prior to application. Ensure product is consistent in appearance and viscosity.

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Avoid entraining air when mixing. Install product using one of the approved application methods evenly at the recommended coverage rate. Use wet mil gauges to monitor coverage rates throughout application. Premium Polyurethane 1085 Base coat can be applied by spray, brush or roller.

**SPRAY EQUIPMENT RECOMMENDATION**

Airless spray pump must have 4,000 psi minimum output pressure rating, a high pressure hose and minimum of 3/4" high pressure whip. Depending on hose length, roof height, temperature, etc, the tip size could vary from 0.039 to 0.049. Must use heavy duty or industrial grade spray tips. Properly clean and maintain spray equipment before, during and after use. Equipment should be properly grounded during use.

**NOTE:** Filters should be removed.

**DRY & RECOAT TIMES**

Dry and recoat times are based on 77°F and 50% relative humidity. Tack free in 12 hours. Top coat after 24 hours and before 72 hours. Environmental or site specific conditions may require variations in cure times.

**COVERAGE**

Coverage rates are listed at minimum recommended rates on page 3. The application surface can affect the necessary coverage rate.

**LIMITATIONS****Not recommended for use over the following:**

**Roof Decks:** Cementitious wood fiber, metal, poured-in-place gypsum, structural lightweight or lightweight insulating concrete, and wood decks (includes plywood, tongue and groove, etc.).

**Products/Systems:** Asphalt-based or coal tar gravel surfaced BUR systems, clay tile, corrugated or standing seam metal roof systems, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.

**Not for use under continuous immersion****CLEAN-UP**

Before the product cures, clean surfaces and equipment with isopropyl alcohol, mineral spirits, or xylene.

**PERFORMANCE CHARACTERISTICS****ABRASION RESISTANCE**

METHOD: ASTM C501  
TYPICAL RESULT: 3mg

**CRACK SPANNING**

METHOD: ASTM C1305  
TYPICAL RESULT: Pass @ -15°F

**ELONGATION**

METHOD: ASTM D2412  
TYPICAL RESULT: 500-700%

**FLEXIBILITY**


METHOD: ASTM D1737  
TYPICAL RESULT: Pass

**INDENTATION HARDNESS**

METHOD: ASTM D2240  
TYPICAL 72 Shore A

**TENSILE STRENGTH**

METHOD: ASTM D412  
TYPICAL RESULT: 220-260 psi

	<b>TECHNICAL DATA</b>	<b>ROC-241</b>
• TRUSTED QUALITY SINCE 1921 • 	<b>RUST-OLEUM® HIGH PERFORMANCE PREMIUM POLYURETHANE 1085 BASE COAT</b>	

## PHYSICAL PROPERTIES

HIGH PERFORMANCE PREMIUM POLYURETHANE 1085 BASE COAT		
Resin Type		Polyurethane
Pigment Type		Carbon black tint paste; Yellow Iron oxide tint paste; Titanium dioxide.
Weight		11.6 lbs.
Solids	By Weight	96%
	By Volume	95 %
Volatile Organic Compounds		<50 g/l
Recommended Dry Film Thickness (DFT) Per Coat		Varies, substrate dependent
Wet Film to Achieve DFT (Unthinned Material)		Varies, substrate dependent
Practical Coverage at Recommended DFT (assumes 15% material loss)		Weathered Single Ply: 1 gal./100 sq. ft. (16 wet mils) Smooth BUR, Smooth & Granule Modified Bitumen, Structural Concrete: 2 gal./100 sq. ft. (32 wet mils) Three-Course Application: 30-65 linear ft./gal
Dry Times at 77°F (25°C) and 50% Relative Humidity	Tack Free	12 hours
	Top Coat	After 24 hours and before 72 hours *If cured base or top coat is exposed for longer than 72 hours, an application of Premium Polyurethane 1085 Primer will be required to promote adhesion between coats.
Shelf Life		9 months in upopened containers when stored properly
WARNING		PROTECT FROM FREEZING
Safety Information		For additional information, see SDS

Additional extended Material and Labor warranties are available. Contact your Rust-Oleum Representative for more information.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



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