

|                                                                                                                     |                                                          |                |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|
|                                                                                                                     | <b>TECHNICAL DATA</b>                                    | <b>ROC-177</b> |
| • TRUSTED QUALITY SINCE 1921 •<br> | <b>870 ELASTOMERIC<br/>COMMERCIAL GRADE ROOF COATING</b> |                |

## DESCRIPTION AND USES

Rust-Oleum® 870 Elastomeric Roof Coating provides a high initial reflectivity value of 87%, energy efficiency, long term durability and excellent resistance to weathering and dirt pick-up. This elastomeric roof coating is formulated to meet and/or exceed the standards established in ASTM D 6083. 870 Elastomeric Roof Coating waterproofs and weatherproofs metal, weathered single ply membranes as well as smooth surface asphalt built-up and modified bitumen roofing substrates.

## PRODUCT FEATURES

- 87% initial reflectivity and 77% weathered reflectivity
- 387% elongation
- Rain and mildew resistant in 4 hours
- Restores metal roofs, concrete, modified bitumen, built-up and weathered single ply roofing

## PRODUCTS

### WHITE 870 ELASTOMERIC ROOF COATING

|        |                  |
|--------|------------------|
| 359666 | 4.75 Gallon Pail |
| 363230 | 53 Gallon Drum   |
| 363237 | 275 Gallon Tote  |

## COMPANION PRODUCTS

### SKU 115 HYBRID EPOXY 1K PRIMER (Gray)

|        |                  |
|--------|------------------|
| 355905 | 4.75 Gallon Pail |
|--------|------------------|

### SKU 130 URETHANE ACRYLIC ROOF PRIMER (Green)

|        |                  |
|--------|------------------|
| 364544 | 4.75 Gallon Pail |
| 365241 | 55 Gallons       |
| 365242 | 275 Gallons      |

### SKU 105 SINGLE PLY ADHESION PRIMER

|        |                  |
|--------|------------------|
| 326036 | 4.75 Gallon Pail |
|--------|------------------|

### SKU ELASTOMERIC ROOF PATCH

|        |            |
|--------|------------|
| 301898 | 0.9 Gallon |
|--------|------------|

### SKU ROOF PATCH FABRIC

|        |            |
|--------|------------|
| 345646 | 6" x 300'  |
| 345647 | 12" x 300' |
| 345648 | 40" x 324' |
| 345649 | 4" x 300'  |

## PRODUCT APPLICATION

### SURFACE PREPARATION

All surfaces must be clean and free from dirt, grease, oil, mold, algae, loose granules, loose paint, rust, excess chalk and other foreign matter which could prevent proper adhesion. Use a high-pressure wash of at least 2,000 psi. Clean with Rust-Oleum One-Step Roof Prep, Krud Kutter® Original Cleaner Degreaser, or other suitable cleaner to remove all grease or oily deposits. Seams should be sealed and waterproofed and roof penetrations should be flashed prior to applying the topcoat.

## PRODUCT APPLICATION (cont.)

### SURFACE PREPARATION (cont.)

**WARNING!** If you scrape, sand or remove old paint, you may release lead 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).

**BUR/MODIFIED BITUMEN:** Torn flashings, faulty copings, parapet walls, large blisters and surface breaks shall be repaired prior to application.

**METAL:** Bare galvanized metal does not require a primer if there is no rust present. Surface must be clean and dry. Steel surfaces must be primed, as does rusty or corroded metal. If the metal panel is not Kynar or previously coated, the surface must be cleaned of all rust as thoroughly as possible by wire brush, power tools or power washed. The surface must be primed with Rust-Oleum 115 Hybrid Epoxy 1K primer\*. Adhesion test may be required. Consult with your Rust-Oleum representative.

**EPDM, PVC, PIB, TPO AND HYPALON:** Must be primed with Rust-Oleum 105 Single Ply Adhesion Primer\*.

\* See primer labels and technical data sheet for correct surface preparation and application procedures.

### APPLICATION

Apply only when air temperatures are between 50-110°F (10-43°C), with less than 85% humidity and surface is at least 5°F (3°C) above the dew point. Material should be properly stored for use between 60-90°F. Surface temperature should be below 140°F. Mix with a power mechanical mixer before use. Mix until the coating is smooth and consistent. Rust-Oleum 870 Elastomeric Roof Coating can be spray, roll or brush applied. A ¾" nap roller is recommended if rolling. Airless spray is recommended for optimal results. Best results are generally obtained @ 2,000-3,000 psi at the spray tip. Keep containers closed as much as possible during use to avoid contamination.

**NOTE:** Reinforcement fabric must be used for all repairs or alligatored surfaces.

### SPRAY EQUIPMENT RECOMMENDATION

**Pumps:** Graco® King 45:1, Graco Bulldog 30:1 or gas-powered equivalents. Graco GH733, HydraMax 350 or GMax 7900 or other manufacturers' equivalents.

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**RUST-OLEUM®****870 ELASTOMERIC  
COMMERCIAL GRADE ROOF COATING****PRODUCT APPLICATION (cont.)****SPRAY EQUIPMENT RECOMMENDATION (cont.)**

**Hose/Pressure:** 50'-300' length (depending on spray rig pressure). When using hoses longer than 100', use the next larger hose ID every 50'. Every 50' of hose will reduce the spray pressure of the rig by 10% at the gun tip. i.e., 300' hose - 3/4" (50'/100') to 5/8" (50'/100") to 1/2" (50'/100') to 3/8" (50').

**Gun:** Graco Contractor Gun, Graco Contractor FTx gun, Graco Silver Plus or equivalent. (Tip extrusions or pole guns can be used).

**Tip Type:** Heavy Duty RAC Switchtips (GHD-XXX) Gray. Tip sizes are detailed below.

| Fan Width (inches) | 0.39     | 0.43     | 0.47     | 0.51     | 0.55     | 0.59     |
|--------------------|----------|----------|----------|----------|----------|----------|
| 10"-12"            | 539      | 543      | 547      | 555      | 547      | 559      |
| 12"-14"            | 639      | 643      | 647      | 651      | 647      | 659      |
| 14"-16"            | 739      | 743      | 747      | 751      | 747      |          |
| 16"-18"            | 839      | 843      | 847      | 851      | 847      |          |
| Flow Rate          | 1.60 gpm | 1.98 gpm | 2.37 gpm | 2.79 gpm | 2.37 gpm | 3.74 gpm |

**COVERAGE**

**Metal:** Prime with Rust-Oleum 115 Hybrid Epoxy 1K Primer. 115 Hybrid Epoxy 1K Primer applies at 225-380 square feet per gallon. After patching and priming, coverage of the 870 Elastomeric Coating is 1 gal./100 square feet for the 1<sup>st</sup> coat and 1 gal./100 square feet for the 2<sup>nd</sup> coat at 16 wet mils per coat. Over corrugated and irregular metal surfaces, allow for additional surface area by multiplying length x width by 1.15 minimum.

**Weathered Single Ply:** After patching and priming with Rust-Oleum 105 Single Ply Adhesion Primer, apply 1.5 gal./100 square feet for the 1<sup>st</sup> coat and 1.5 gal./100 square feet for the 2<sup>nd</sup> coat at 24 wet mils per coat.

**Built-Up/Modified Bitumen:** After patching and priming with Rust-Oleum 130 Urethane Acrylic Roof Primer, apply 1.25 gal./100 square feet for the 1<sup>st</sup> coat and 1.25 gal./100 square feet for the 2<sup>nd</sup> coat at 20 wet mils per coat. The surface dictates the actual coverage. The amounts shown are intended as minimum application information.

**PRODUCT APPLICATION (cont.)****DRY & RECOAT TIMES**

Dry and recoat times are based on 70°F and 50% relative humidity. Dry times increase at cooler temperatures. Dries to the touch in 4 hours; allow minimum 24 hours recoat. After the first coat, allow to cure until it can support the required foot traffic based on specific job site conditions and roof slope, etc. Environmental or site-specific conditions may require variations in cure times.

**TINTING**

Rust-Oleum 870 Elastomeric Roof Coating can be tinted with up to 4 ounces per gallon with Universal Tint.

**CLEAN-UP**

Wash tools and equipment with soap and water immediately after use. Wipe up splatters before they dry. Follow equipment manufacturer's directions to clean spray equipment. Properly dispose of all soiled rags and containers.

**LIMITATIONS**

The application of Rust-Oleum roof coatings assumes substrate to be coated as structurally sound and has reasonable life expectancy prior to being coated. Not for application over shingles. Application temperature shall be above 50°F. Protect from freezing. Not intended for use in areas subject to vehicular traffic, ponding water and over tar or silicone. Avoid walking on roof coating except for occasional maintenance. Use caution when walking on wet roof. Do not apply when rain is imminent.



|                                                      |                                                          |                |
|------------------------------------------------------|----------------------------------------------------------|----------------|
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## PHYSICAL PROPERTIES

|                                                                  |              | 870 ELASTOMERIC ROOF COATING                                                                                                                   |
|------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Resin Type                                                       |              | Water-based Acrylic                                                                                                                            |
| Pigment Type                                                     |              | Titanium Dioxide, Zinc Oxide                                                                                                                   |
| Solvents                                                         |              | Water                                                                                                                                          |
| Weight                                                           | Per Gallon   | 11.3 lbs.                                                                                                                                      |
|                                                                  | Per Liter    | 1.35 kg                                                                                                                                        |
| Solids                                                           | By Weight    | 60.0%                                                                                                                                          |
|                                                                  | By Volume    | 48.0%                                                                                                                                          |
| Volatile Organic Compounds                                       |              | <10 g/l                                                                                                                                        |
| Recommended Dry Film Thickness (DFT) per Coat (2 coats required) |              | Metal - 8.0 mils (200μ) per coat<br>Weathered Single Ply - 10.0 mils (250μ) per coat<br>Built-Up/Modified Bitumen - 10.0 mils (250μ) per coat  |
| Wet Film to Achieve DFT (Unthinned material - 2 coats required)  |              | Metal - 16.0 mils (400μ) per coat<br>Weathered Single Ply - 20.0 mils (500μ) per coat<br>Built-Up/Modified Bitumen - 20.0 mils (500μ) per coat |
| Practical Coverage                                               |              | Varies depending on substrate to be coated                                                                                                     |
| Dry Times at 77°F (25°C) and 50% Relative Humidity               | Touch        | 4 hours                                                                                                                                        |
|                                                                  | Recoat       | 24 hours minimum                                                                                                                               |
|                                                                  | Foot Traffic | 24 hours                                                                                                                                       |
| Surface Temperature Limitations                                  |              | Apply only at 50-140°F (10-60°C)                                                                                                               |
| Shelf Life                                                       |              | 3 years                                                                                                                                        |
| Flash Point                                                      |              | >200°F                                                                                                                                         |
| Safety Information                                               |              | For additional information, see SDS                                                                                                            |

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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