

# RE-ROOF Primer PO

Two Component, Polyurethane, Cool Roof Primer for existing PVC, TPO and polyurethane

## CSI Div. 07 & 09

07 01 50 Maintenance of Membrane Roofing  
 07 01 50.61 Roof Re-Coating  
 07 14 16 Cold Fluid Applied Waterproofing  
 09 91 33 Primers  
 09 01 90 Maintenance of Painting and Coating

## LEED Points

MR Credit 5.1, Regional Materials.....Up to 2 Points  
 IEQ Credit 4.2, Low-Emitting Materials Paints and Coatings...1 Point  
 Using this AQUAFIN product can help contribute to LEED certification of projects in the categories shown above.

## Product Description:

RE-ROOF Primer PO is a two-component, 100% solids, low viscosity, polyurethane, liquid-applied cool roof primer for existing PVC, TPO and polyurethane surfaces on roofs. RE-ROOF Primer PO is designed for use as part of Aquafin's RE-ROOF System. The RE-ROOF System is an eco-friendly, reliable solution for new roofs and cost-effective option for extending the life of existing roof systems.

## Typical Applications:

- As a primer over PVC membrane surfaces on roofs.
- As a primer over TPO membrane surfaces on roofs.
- As a primer over polyurethane surfaces on roofs.

## Advantages:

- Fast cure
- High solids
- Excellent penetrating characteristics
- Low odor

## Surface Preparation:

- All substrates must be strong, solid, and stable.
- All roof drains must be unclogged and working properly. Roofs must be sloped according to industry standards to facilitate water removal. All water must drain and/or evaporate within 48 hours.
- Install crickets and complete metal sheet work repairs. Tighten fasteners and replace any fasteners that have deteriorated.
- All surfaces must be dry, clean and free from loose sand, dirt, dust and other foreign substances that could interfere with adhesion.
- All surfaces containing oil, grease, or similar types of contamination must be thoroughly degreased using a roof cleaner that is appropriate for the substrate. Follow all written instructions for the roof cleaner and completely remove all residue left from the cleaning process.
  - **PVC (polyvinyl chloride):** Repair all seam and flashing failures. Pressure-wash the PVC surface with water to clean and remove all foreign matter, dirt, and debris.
  - **TPO (thermoplastic polyolefin):** Repair all seam and flashing failures. Pressure-wash the TPO surface with water to clean and remove all foreign matter, dirt, and debris.

Technical Properties:	
	RE-ROOF Primer PO
Coverage Rate	100 - 200 ft <sup>2</sup> /gallon
Mixing Ratio	1 Part-A (black):1 Part-B (white)
Pot Life at 75°F (24°C), 50% RH	60 - 90 min
Specific Gravity	
Side-A	1.22 g/cc
Side-B	0.98 g/cc
Total Solids by Weight, ASTM D2369	97.8 ± 2%
Total Solids by Volume, ASTM D2697	97.7 ± 2%
Viscosity at 75°F (24°C)	500 ± 100 cps
Color	Gray
VOC, ASTM D-2369-81	0.18 lb/gal, 21 gm/liters
All data are averages of several tests under laboratory conditions. In practice climatic variations such as temperature, humidity, and porosity of substrate may affect these values.	

- **Polyurethane:** Pressure-wash the existing polyurethane surface with water to clean and remove all foreign matter, dirt, debris and any loose coating.

## Jobsite Preparation:

- Take all necessary precautions to ensure safety.
- Cover all intake vents near the work area.
  - Minimize or exclude all personnel not directly involved with the application.
  - Follow appropriate measures to prevent any sparks.
  - Do not weld, smoke or allow any open flames during mixing, application or curing.
  - Ensure that CO<sub>2</sub> or other dry chemical fire extinguishers are within easy access.
  - Only proceed with application when ambient temperature is minimum of 50°F (10°C) and falling, and more than 6°F (3°C) above dew point. Temperatures must be maintained for at least 12 hours after the installation. Do NOT proceed with application when the temperatures drop below 50°F (10°C), if precipitation is expected, or if humidity is at or above 90%. Primer should not become wet within 12 hours after application. Special precautions are to be taken when ambient and/or substrate temperatures are approaching, at, or above 90°F (32°C) and it may be necessary to limit material application to evening hours.

# RE-ROOF Primer Roof PO

- Hot surfaces should be cooled and shaded while cold surfaces should be heated and sheltered.

## Mixing:

- RE-ROOF Primer PO is supplied in the appropriate mixing ratio. Always mix full units.
- Condition material to 70°F to 80°F (21°C to 27°C) prior to mixing and application.
- Use chemical resistant (Nitrile) gloves and goggles when mixing or applying RE-ROOF Primer PO and mix in a well-ventilated area.
- The volume mixing ratio is 1 Part-A to 1 Part-B (1A:1B). Pre-mix the "A" and "B" components to ensure all raw material and pigments are dispersed uniformly. Then accurately measure out equal volumes of component A and component B before combining together.
- Mix for at least 3 minutes using a low speed drill with a jiffy mixing blade or paddle. Occasionally scrape the sides of the container while mixing. For best results, mix at slow speeds (300 - 500 rpm) to prevent entraining air, and continue until a homogeneous mixture is achieved. Do not mix in an up and down motion.

## Application:

Read all instructions thoroughly prior to installation.

Roof areas can encompass many different types of materials, especially in penetration and transition areas. For this reason, it is likely that several different primers will be required.

- **Primer (for flashing areas):** Apply the appropriate primer(s) to all areas that will receive a RE-ROOF flashing such as edges, seams, joints, metal flashing, penetrations, and transitions. See primer selection chart for guidance. Refer to the corresponding primer Technical Data Sheet for surface preparation, mixing and application instructions, dry mil thickness requirements, approx. coverage, curing and recoat times. Allow to cure and pay close attention to recoat times.
- **First Flashing Treatment:** Treat edges, seams, joints, metal flashing, penetrations, and transitions with a RE-ROOF flashing. Include drains, fasteners, guide wire straps, gutters, inside and outside corners, joints, machine legs, parapet walls and caps, pipes, protrusions, rake edges, round projections, screws, seams, signposts, skylights, voids, and any areas where water could enter through the roof. Refer to the corresponding RE-ROOF flashing Technical Data Sheet for surface preparation, mixing and application instructions, dry mil thickness requirements, approx. coverage, curing and recoat times. Allow to cure and pay close attention to recoat times.
- **Second Flashing Treatment:** Apply a second coat of a RE-ROOF flashing over all areas that received the first coat of a RE-ROOF flashing. Allow to cure and pay close attention to recoat times.
- **Primer (for field areas):** Apply RE-ROOF Primer PO over existing PVC (polyvinyl chloride), TPO (thermoplastic polyolefin), and polyurethane membranes in preparation for a RE-ROOF base coat. Apply RE-ROOF Primer PO in a monolithic application at a rate of 100 - 200 ft<sup>2</sup>/gallon to achieve a minimum of 5 mils WFT (wet film thickness). Use an airless sprayer, brush, or 3/8" nap phenolic resin core roller. Overlap the RE-ROOF flashing by at least 6 inches (15 cm).

## Curing:

- Allow to cure (to touch) until no longer tacky [typically 3 - 5 hours at 75°F (24°C) and 50% relative humidity].
- Once RE-ROOF Primer PO is no longer tacky, apply a RE-ROOF flashing or a RE-ROOF base coat within a maximum of 12 hours. Refer to the respective Technical Data Sheet for information on surface preparation, application, coverage, etc.

- NOTE: If RE-ROOF Primer PO has been allowed to remain tack free for more than 12 hours, contact Aquafin Technical Department.

## Limitations:

- Do not dilute under any circumstance.
- Do not mix more material than can be used within 50 minutes [based on 75°F (24°C) and 50% RH].
- Large mixed batches and high temperatures will significantly reduce the pot life.
- High temperatures, high humidity and thicker applications will significantly accelerate the cure time. Lower temperatures and/or low humidity will extend the cure time.
- Once containers have been opened, use material as soon as possible.

## Clean-up:

Clean tools and equipment with Methyl Ethyl Ketone (MEK), Xylene, or similar product immediately after use. Cured material must be removed mechanically.

## Packaging:

RE-ROOF Primer PO is packaged in a 2-gallon kit (7.57 liters)

- 1 gallon (3.78 liters) pail of Part-A
- 1 gallon (3.78 liters) pail of Part-B

## Shelf Life & Storage:

- 12 months in unopened, original packaging when stored at temperatures between 50°F and 75°F (10°C to 24°C).
- Keep containers closed, store in a dry, cool place away from heat, direct sun, sparks, open flame, and moisture.
- Protect material from freezing.

## Note:

Proper application is the responsibility of the user. Field visits by AQUAFIN personnel are for the purpose of making technical recommendations and not for supervising or providing quality control on-site.

## Safety:

Refer to SDS. For commercial use only. Ensure adequate ventilation in application area. Use Type C organic vapor cartridge respirators during spray application. Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, seek emergency medical assistance immediately. Avoid contact with skin and eyes. Wear fabric coveralls, neoprene gloves or other chemically resistant gloves and safety goggles during mixing and application. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water for 15 minutes and seek emergency medical assistance immediately. KEEP OUT OF REACH OF CHILDREN.

LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN INC. will replace or at our discretion refund the purchase price of any product, excluding cost of labor, which is proven to be defective. Our product recommendations are based on industry standards and testing procedures. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. We assume no warranties written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL

# RE-ROOF Primer Roof PO

OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

**For Professional Use Only.**

<b>RE-ROOF Primer Selection Guide</b>					
<b>PRIMER</b>	BUR	Concrete	EPDM	Galvanized Steel	Masonry
PRO-Tekt SP		X		X	X
RE-ROOF EPDM Treatment			X		
<b>RE-ROOF Primer PO</b>					
RE-ROOF Primer WB	X				
<b>PRIMER</b>	Modified Bitumen	Wood (trim only)	<b>Polyurethane</b>	<b>PVC</b>	<b>TPO</b>
PRO-Tekt SP		X			
RE-ROOF EPDM Treatment					
<b>RE-ROOF Primer PO</b>			<b>X</b>	<b>X</b>	<b>X</b>
RE-ROOF Primer WB	X				

<b>RE-ROOF Primer PO - Coverage Rates</b>				
WFT (wet film thickness) and DFT (dry film thickness) requirements are provided in mils				
	Minimum WFT (Wet Film Thickness)	Required DFT (Dry Film Thickness)	Coverage Rate Per Gallon	Coverage Rate Unit
<b>1st Layer:</b> Primer(s) for flashing area(s)	(see primer Technical Data Sheet)			
<b>2nd Layer:</b> 1st Coat Flashing: a RE-ROOF Flashing	(see flashing Technical Data Sheet)			
<b>3rd Layer:</b> 2nd Coat Flashing: a RE-ROOF Flashing	(see flashing Technical Data Sheet)			
<b>4th Layer:</b> 3rd Coat Flashing (if required): a RE-ROOF Flashing	(see flashing Technical Data Sheet)			
<b>5th Layer: Primer for main field area: RE-ROOF Primer PO</b>	<b>8 mils</b>		<b>100 - 200 ft<sup>2</sup></b>	<b>200 - 400 ft<sup>2</sup> (2 gal unit)</b>
<b>6th Layer:</b> 1st Base Coat: a RE-ROOF base coat	(see base coat Technical Data Sheet)			
<b>7th Layer:</b> 2nd Base Coat: a RE-ROOF base coat	(see base coat Technical Data Sheet)			
<b>8th Layer:</b> 1st Top Coat: a RE-ROOF top coat	(see top coat Technical Data Sheet)			
<b>9th Layer:</b> 2nd Top Coat: a RE-ROOF top coat	(see top coat Technical Data Sheet)			
Actual coverage may vary due to texture, and absorption of substrate. Failure to achieve the required dry mil thickness will compromise the effectiveness of the product and void the warranty. It is the applicator's responsibility to verify that the required dry mil thickness has been attained.				