



Asphalt Restoration New or Aged BUR and Modified Bitumen Sample Design Guideline

ACRYLIC



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ASPHALT RESTORATION – NEW OR AGED BUR AND MODIFIED BITUMEN GUIDELINE – ACRYLIC SYSTEM**PART 1 – GENERAL****1.01 DESCRIPTION**

- A. This guideline includes the installation of the liquid applied ACRYLIC ASPHALT PRIMER acrylic base coating to repair and ACRYLIC coating to coat new or restore aged Modified Bitumen single-ply membrane roofs and new or aged smooth asphalt BUR. The process effectively repairs cracks, splits and defects in the aged roof, protects the Modified Bitumen or BUR from further degradation, and renews the weathered surface to extend the useful life of the roof.
- B. Work included is labor, materials, equipment and accessories and related services to complete the application in accordance with guideline and details as approved by ITW POLYMERS SEALANTS NORTH AMERICA, INC.
- C. Work excluded is replacement of roof accessories such as drains, vents and other penetrations and structural roof repair.

1.02 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ITW POLYMERS SEALANTS NORTH AMERICA, INC. will furnish upon request, certification the material meets the physical properties stated in this guideline.
- B. Contractor Qualifications: All work to be completed must be done by an ITW POLYMERS SEALANTS NORTH AMERICA, INC. preferred applicator.
- C. No deviation from this guideline will be accepted without prior written approval of ITW POLYMERS SEALANTS NORTH AMERICA, INC.

1.03 SUBMITTALS

- A. Warranty pre-installation notifications are required prior to the installation of the warranted systems.

1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver material in original, unopened packages and containers.
- B. Containers are to be labeled with manufacturer's name, product name, description, and identification.
- C. Store materials in a dry area between 40°F (4.45°C) and 80°F (26.7°C) and protect from water and direct sunlight.
- D. Any materials damaged in handling or storage must not be used.
- E. Deliver SDS for each product. Consult SDS and Technical Data Sheet for each product used before beginning work.

1.05 JOB CONDITIONS (CAUTIONS AND WARNINGS)

- A. All mechanical equipment, vents, skylights, etc., should be in place before the roofing system is installed.

- B. Mechanical units (blowers, HVAC) should be prevented from distributing solvent fumes into the building.
- C. Coatings should be protected from traffic and other abuse until completely cured and installation is complete.
- D. Application of coatings with spray equipment may require some masking and possible erection of wind screens to prevent over-spray and drift damage. Protect surfaces of unrelated areas from coatings and over-spray possibility.
- E. Application shall proceed to dry, clean surfaces only. In planning work consider environment and weather related conditions such as frost, mist, dew, condensation, humidity, and temperature. Temperature should be above 45°F (7.2°C), rising, and stay above 40°F long enough for initial cure to occur. Moisture should not be imminent.
- F. Sufficient safety belts and lines should be provided. A wet surface or a surface that is not thoroughly cured can be very slippery. All work environments should comply with current OSHA regulations.

1.06 WARRANTY

- A. ITW POLYMERS SEALANTS NORTH AMERICA, INC. warrants that materials provided are free from defects in manufacturing and will replace any material found to be defective.
- B. ITW POLYMERS SEALANTS NORTH AMERICA, INC. /Contractor Coating System Warranty is available through preferred contractors and at a cost. Consult ITW POLYMERS SEALANTS NORTH AMERICA, INC. for further details of the Warranty Program.

PART 2 - PRODUCTS

2.01 GENERAL

- A. The components of the coating system are to be products of ITW POLYMERS SEALANTS NORTH AMERICA, INC., or products approved by ITW POLYMERS SEALANTS NORTH AMERICA, INC. as compatible; or approved equal.

2.02 BASE COAT – ERSYSTEMS® ACRYLIC ASPHALT PRIMER

- A. See Technical Data Sheet

2.03 FINISH COAT – ERSYSTEMS® ACRYLIC 1000 PLUS

- A. See Technical Data Sheet

2.04 FABRIC REINFORCEMENT: POLYESTER KNIT FABRIC (TIE-TEX272)

- A. See Technical Data Sheet

2.05 RELATED MATERIALS

- A. Gap/Joint Sealant: **PERMATHANE® SM7108**
- B. **ERSYSTEMS® ACRYLIC 1000 FG** Acrylic caulk
- C. Metal Primer: **ERSYSTEMS® ACRYLIC METAL RUST PRIMER**
- D. **ERSYSTEMS® QUICKET**: Pourable self-leveling repair sealant. Quickly builds cricket and a pourable sealer.

- E. Alternative Finish Coat: **ERSYSTEMS® ACRYLIC SW** (Standard Warranty). Only a “Standard Warranty” is available if this product is used.

NOTE: See Product Data Sheet for additional information and detailed instruction on each product.

PART 3 - APPLICATION

3.01 SUBSTRATE INSPECTION

- A. A proper substrate shall be provided to receive the ITW POLYMERS SEALANTS NORTH AMERICA, INC. coatings.
- B. The roof surface must be clean, dry, and free of ponding water, and over-all structurally sound.
- C. Inspect the roof surface for cracks, blisters, brittleness and alligating. Inspect flashing details. Determine which areas may not be watertight and in need of repair.
- D. Inspect the substrate system for moisture content, and determine if areas need to be replaced.
- E. If a sound, stable, well-secured surface cannot be ensured, the roof is not acceptable to receive the Coating Restoration System.
- F. Perform an adhesion test of the ACRYLIC ASPHALT PRIMER to a representative and properly prepared area of the aged BUR or Modified Bitumen membrane. Contact ITW POLYMERS SEALANTS NORTH AMERICA, INC. Tech Service for details of adhesion test.

3.02 SURFACE PREPARATION & CLEANING

- A. Prepare the roof surface by high pressure washing with water at a pressure of 2,000 psi to 3,000 psi to remove dirt, miscellaneous soils, oily films, and the brown chalky residue, which develops on the surface of many smooth Modified Bitumen membranes over time.
- B. Repair deteriorated flashing, cracks, and other surface imperfections with like materials.
- C. Repair major substrate defects and replace with appropriate materials to provide a sound surface to which the coating may be applied.
- D. Repair and prepare incidental metal on the roof by priming with ACRYLIC METAL RUST PRIMER.
- E. Take action to ensure proper drainage exists on the roof.

3.03 DRAINAGE

- A. Areas exhibiting a lack of positive drainage or ponding water will adversely affect performance of any roofing system and will be excluded from warranty. Where positive drainage does not exist, water removal from the roof surface must be facilitated by lowering drains and/or taking other corrective action. Additional maintenance inspections, repair work, the addition or use of primers and/or higher system mil-build may be required in these areas to extend coating life.

3.04 COATING APPLICATIONS: (Note: Total dry mil minimums not acceptable uniformly over entire field)

- A. Repair deteriorated areas with like material or by using the following method: ACRYLIC shall be applied to flashings, cracks and substrate areas requiring repair at the rate of 1.5 - 2 gallons per 100 square feet. Polyester fabric of the appropriate width shall be embedded into the wet coating and brushed or rolled to be wrinkle-free.

- B. ACRYLIC 1000 PLUS

Base Coat: ACRYLIC ASPHALT PRIMER is applied to the properly prepared surface at the rate of 0.50 gallon (1.89 liters) per 100 square feet. Back rolling will assist in acquiring a uniform membrane thickness.

Finish Coat: After allowing the ACRYLIC ASPHALT PRIMER base coat to cure, a finish coat of ACRYLIC 1000 PLUS may be applied at the rate of 3 gallons per square in two passes (1.5 gal (5.68 liters) per 100 square feet per pass, total dry mils: 29, minimum 27). Finish coat may be spray applied or rolled on perpendicular to the base coat application.

- C. Granule Application (optional): Granules may be placed into the finish coat to produce a tougher, more durable and weather resistant surface. Embed 30-40 lbs. of No. 11 Roofing Granules into a tack coat of 1/2 gallon (1.89 liters) per 100 square feet of ACRYLIC 1000 PLUS finish coat.
- D. Contact ITW POLYMERS SEALANTS NORTH AMERICA, INC. Technical Department for warranty requirements.

PROTECTION AND CLEAN-UP

PROTECTION

- A. The roof system and all components must be protected from all other trades at the job site.
- B. All damage to the system must be repaired to comply with ITW POLYMERS SEALANTS NORTH AMERICA, INC. guidelines prior to final inspection for warranty approval. The cost of all related repairs will be borne by the trades and/or subcontractors responsible for the damages.

CLEAN-UP

- A. Site clean-up is the responsibility of the contractor.
- B. All debris, containers, materials, equipment, and protection materials must be removed from the premises and properly disposed of. All work and storage areas must be in an undamaged and acceptable condition upon completion of clean-up.