



## BRICK/BLOCK/MASONRY WALL Sample Design Guideline

# ACRYLIC

ITW POLYMERS SEALANTS NORTH AMERICA, INC.

12055 Cutten Rd. Houston, TX 77066

Tel: 972-438-9111 Fax: 972-554-3939 [www.itwsealants.com](http://www.itwsealants.com)

## **BRICK/BLOCK/MASONRY WALL SAMPLE DESIGN GUIDELINE – ACRYLIC**

### **PART 1 – GENERAL**

#### **1.01 DESCRIPTION**

- A. This guideline includes the installation of the liquid applied acrylic coating to waterproof, and protect above ground masonry, brick and block. The coating process effectively seals the concrete, covers cracks and surface imperfections with a highly elastic base coat and protects the roof with a tough durable finish coat.
- B. Work included is labor, materials, equipment and accessories and related services to complete the application in accordance with guidelines 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 above 40°F (4.45°C) and below 80°F (26.7°C) 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 overspray and drift damage. Protect surfaces of unrelated areas from coatings and overspray possibilities.
- 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 40°F (4.45°C), more than 5°F above the dew point and rising, for best application results.
- 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 BASECOAT/FINISH COAT - ERSYSTEMS® ACRYLIC 1000 PLUS (White or Gray)**

- A. See Technical Data Sheet

#### **2.03 CRACK & DETAIL SEALANT - ERSYSTEMS® ACRYLIC 1000 FG**

- A. See Technical Data Sheet

#### **2.04 CRACK & DETAIL SEALANT - PERMATHANE® SM7120 PU.**

- A. See Technical Data Sheet

**NOTE:** See Technical 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 Elastomeric Wall Coating System.
- B. If a clean, dry, sound, stable surface cannot be ensured the wall is not acceptable to receive the Elastomeric Wall Coating.
- C. Inspect the surface for: mildew and fungus, cracks, peeling and chalking coatings, oil, grease, mineral deposits and any loose debris which will interfere with the coating.
- D. Previously coated surfaces, which exhibit chalking, should be checked for adhesion. Test the ACRYLIC 1000 PLUS on a small area of properly prepared wall.
- E. Inspect mortar joints for voids, perimeter joints and mullions on windows, and for any areas requiring caulk. Repair prior to coating.

### **3.02 SURFACE PREPARATION & CLEANING**

- A. Prepare the concrete wall surface by high pressure washing with water at 2000 psi minimum to remove dirt, debris, oily films, loose coatings, etc.
- B. If mildew and fungus exist, remove by washing with a solution of detergent and bleach (1 tablespoon of laundry detergent with 1-2 pints of bleach in 1 gallon of water). Thoroughly, wash and rinse.
- C. If the wall is very smooth concrete or if mineral deposits exist on the concrete, an acid etch may be required. Mix commercial Muriatic Acid (hydrochloric acid) with an equal amount of water. Dampen the surface with water, brush the acid solution on and scrub until the cleaning bubble action ceases. Thoroughly wash and rinse with high-pressure water until the surface of the concrete is free of acid.
- D. Loose, peeling and cracked paints and caulks shall be removed. Re-caulk as necessary.
- E. Mortar joints shall be smooth of mortar dropping. Voids in the mortar shall be cleaned and caulked with Acrylic caulk.
- F. Stable non-moving cracks and panel seams may be sealed by caulking if necessary and then applying a pre-stripe of 6" polyester fabric embedded into a 9"-12" strip of ACRYLIC 1000 PLUS applied at 20-25 wet mils thick over the crack. Another 8 wet mils of ACRYLIC 1000 PLUS is brushed or rolled over the fabric eliminating any wrinkles from the embedded polyester. The edges of the pre-stripe shall be feathered smooth to blend the patch into the concrete wall.
- G. Large moving cracks of 1/4" or more may require foam backer rod of the proper dimension prior to caulking with Acrylic caulk followed by the pre-striping process described in (3.02 F) above.

### **3.03 COATING APPLICATION: (Total dry mil minimums not acceptable uniformly over entire field)**

- A. Repair Porous Areas: Very porous concrete blocks may require a block filler if they cannot be sufficiently sealed.

- B. Base Coat: ACRYLIC 1000 PLUS shall be applied in a minimum of two coats totaling 1.5 gallons (5.68 liters) per 100 square feet producing a 12 dry mil minimum of continuous pinhole free membrane. 2 gallons (7.57 liters) per 100 square feet on rough porous surfaces will be required. ACRYLIC 1000 PLUS may be applied by brush, roller, or airless spray. The first coat of .75-1.0 gallons (2.84-3.79 liters) per 100 square feet must be rolled to ensure uniform coverage, surface penetration and a pinhole free film (overly aggressive rolling may create pinholes). After the initial cure, inspect the first coat for voids and defects and touch up accordingly with Acrylic caulk or by brushing ACRYLIC 1000 PLUS into the defects, inaccessible areas, etc.
- C. Finish Coat: Apply the finish coat of ACRYLIC 1000 PLUS spray or roller at a rate of .75 - 1.0 gallons (2.84-3.79 liters) per 100 square feet.

## **PROTECTION AND CLEAN-UP**

### **PROTECTION**

- A. The wall system must be protected from the elements and other trades at the jobsite to give the system time to cure. 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.