

## COATING RECOAT SYSTEM SUMMARY

This is a generic summary of IPC's more detailed non-silicone **COATING RECOAT SYSTEM SPECIFICATION**. For warranty purposes, Approved Applicators are responsible for studying, understanding, and following the specification. As always, contact IPC for technical assistance.

### I. SURFACE PREPARATION

1. Pressure wash surface to be coated using TSP or other suitable cleaner and rinse with water.
2. Inspect entire membrane, especially around penetrations, flashings, and the like. Repair as necessary with **ACRYCAULK<sup>™</sup>**

### II. COATING APPLICATION

1. The surface to be coated must be clean and dry.
2. Apply **ACRYLINK G<sup>™</sup>** elastomeric roof coating with an airless sprayer or roller, giving special attention to bridged and repaired areas.
3. Use an appropriate number of coats to achieve the correct millage. For IPC purposes, "pitched" refers to a roof with at least 1 in 12 pitch.
  - a. 5-year: 2.75 gallons of **ACRYLINK G<sup>™</sup>** per square total.
  - b. 10-year (pitched): 3.67 gallons of **ACRYLINK G<sup>™</sup>** per square total.
  - c. 10-year (flat): 4.125 gallons of **ACRYLINK G<sup>™</sup>** per square total.
  - d. 20-year (pitched): 5.5 gallons of **ACRYLINK G<sup>™</sup>** per square total.
  - e. 20-year (flat) 6.0 gallons of **ACRYLINK G<sup>™</sup>** per square total.
4. Backroll the base coat as it is being applied.
5. Allow each coat to dry, inspect and repair as necessary before applying next coat.
6. Apply 0.5 gallons per square (200 square feet per gallon) of **ACRYSHEEN<sup>™</sup>** surface coating as a top coat, if desired.

### III. LIMITATIONS

1. This procedure is to be used only in conjunction with commonly accepted roofing and waterproofing standards.
2. No material shall be applied to wet, dirty, or frozen surfaces, or to areas of gross ponding water.
3. **ACRYLINK G<sup>™</sup>**, **ACRYCAULK<sup>™</sup>**, **ISOPRIME<sup>™</sup>**, and **ACRYSHEEN<sup>™</sup>** shall not be applied during inclement weather, when a precipitation appears imminent, when the temperature is below 45 °F, when the relative humidity exceeds 85%, or within 4 hours of sundown.
4. In order to qualify for factory warranty, applicator must have Approved Applicator status, the roof must meet the square foot minimum, the **ACRYLINK G<sup>™</sup>** membrane must be continuous, and the membrane must meet the TDM minimum.
5. In conjunction with the final inspection, all debris, material, and equipment are to be removed from the job site, leaving the area in an undamaged and acceptable condition.

### COATING SYSTEM RECOAT SPECIFICATION

#### Section 1.0 Scope

The intention of this specification is to outline procedures for the application of an **ACRYLINK G™** elastomeric coating membrane for the purposes of renewing an existing non-silicone elastomeric coating substrate. This specification describes materials, methods, and conditions necessary for the proper installation of this membrane.

#### Section 2.0 Materials

All materials shall be manufactured or approved by IPC, and shall meet the following minimum specifications:

- 2.1 **ACRYLINK G™** Elastomeric Coating
  - Vehicle Type ..... Crosslinking Acrylic
  - Pigment to Vehicle Ratio ..... 1.5 to 1
  - Solids (Volume) ..... 63%
  - Elongation ..... 360%
  - Tensile Strength ..... 304 psi
  - Permeance @ 45 mils ..... 2.21 perms
  - Reflectivity (White) ..... 79%
- 2.2 **ACRYCAULK™** Brush or Trowel Grade Sealant
  - Vehicle Type ..... 100% Acrylic
  - Pigment to Vehicle Ratio ..... 1.97 to 1
  - Solids (Volume) ..... 70%
  - Elongation ..... 325%
- 2.3 **ACRYSHEEN™** Surface Coating
  - Vehicle Type ..... 100% Acrylic
  - Pigment to Vehicle Ratio ..... 1.2 to 1
  - Gloss ..... Medium Low
  - Color ..... Bright White (tintable)
  - Reflectivity (untinted) ..... 80%
- 2.4 Delivery and Storage
  - 2.4.1 Materials shall be delivered in their original, tightly sealed containers or unopened packages, clearly labeled with the manufacturer's name, Underwriter's Laboratories file number, and—where appropriate—product identification and lot numbers.
  - 2.4.2 Materials shall be kept from freezing, and shall be stored out of the weather, in their original tightly sealed containers or unopened packages, as recommended by the manufacturer.

#### Section 3.0 Contractor

- 3.1 The **ACRYLINK G™** elastomeric coating membrane shall be applied by a single, experienced, and competent contractor or applicator, approved by IPC.
- 3.2 Contractor or applicator shall be responsible for selecting and supplying all labor and supervision, and shall be responsible for furnishing all materials required to complete the job satisfactorily, in accordance with manufacturer's specifications.

#### Section 4.0 Surface Preparation—Cleaning

Preparations shall include all requirements specified by IPC to ensure adequate adhesion of the **ACRYLINK G™** elastomeric coating membrane to the substrate surface. Preparation shall include, but shall not be limited to, the following:

- 4.1 All unnecessary and non-functional equipment, conduit, and debris shall be removed from the roof.
- 4.2 The entire surface to be coated shall be pressure washed in order to remove all dust, dirt, debris, chalk, oil, tar, and the like from the substrate surface. A suitable cleaner, such as TSP, and a broom shall be used as necessary. If a cleaner is required, the surface shall be rinsed with water to remove residue.

#### Section 5.0 Surface Preparation—Detailing

Preparations shall include all requirements specified by IPC to ensure adequate adhesion of the **ACRYLINK G™** elastomeric coating membrane to the substrate surface. Preparation shall include, but shall not be limited to, the following:

- 5.1 Detail work shall not commence during inclement weather, when a precipitation appears imminent, when the temperature is below 45 °F, or when relative humidity exceeds 85%. To provide adequate curing time, detail work shall terminate a minimum of four (4) hours before sundown.
- 5.2 The entire surface to be coated shall be free of dust, dirt, tar, oil, moisture, frost, or any other material that would impair the adhesion of **ACRYLINK G™** or **ACRYCAULK™** to the substrate surface.
- 5.3 Contractor shall inspect entire existing coating membrane, paying special attention to transition points, penetrations, flashings, and the like. Any penetration, expansion joint, transition, gap, hole, and the like that is in need of repair or reflashing shall be repaired or reflash according to the following procedure:
  - 5.3.1 On a clean, dry surface, a light coat of **ACRYCAULK™** shall be applied to both sides of the area to be flashed, bridged, or repaired.
  - 5.3.2 A strip of non-woven or spun polyester roofing cloth, of an appropriate width, shall be pressed down into the caulk, thus bridging the gap. It is important to ensure that there are no fishmouths or wrinkles in the polyester.
  - 5.3.3 The polyester cloth shall then be completely covered with a second coat of **ACRYCAULK™**. This second coat shall completely cover the polyester cloth, and shall be applied within the same working day as the application of the polyester cloth.
  - 5.3.4 Narrow gaps and small holes may be sealed with **ACRYCAULK™** alone, without the use of polyester cloth.
- 5.4 After completing this procedure, the newly flashed or bridged areas shall be allowed to cure overnight. Before coating application commences, all such areas shall be inspected and repaired, as necessary, with **ACRYCAULK™** or an approved building sealant.
- 5.5 **ACRYLINK G™** coating shall be applied over these areas during normal coating operation procedures.

#### Section 6.0 Coating Application

- 6.1 Coating application shall not commence during inclement weather, when a precipitation appears imminent, when temperature is below 45 °F, or when relative humidity exceeds 85%. To provide adequate curing time, coating application shall terminate at least four (4) hours before sundown.
- 6.2 Entire surface to be coated shall be free of dust, dirt, tar, oil, moisture, frost or any other material that would impair the adhesion of **ACRYLINK G™** elastomeric coating to the substrate surface.
- 6.3 **ACRYLINK G™** elastomeric coating: Base Coat
  - 6.3.1 The base coat of **ACRYLINK G™** shall be applied at 1½ gallons per 100 square feet using conventional airless spray equipment or rollers.
  - 6.3.2 Coating shall be applied so as to cover the substrate uniformly. All flashed, bridged or repaired areas (as described in section 6.0) shall be coated again at this time, and during each subsequent coat.

- 6.3.3 The base coat may be applied in more than one pass, if desired, to accelerate curing, provided adequate curing time has been allowed between passes to prevent damage from being done to the membrane when it is walked upon.
- 6.3.4 IPC recommends the use of a darker color, like gray, for the base coat, as it cures much faster than a lighter color, such as white.
- 6.3.5 If sprayed, IPC recommends backrolling the base coat as it is being applied (the first pass of the base coat if applied in multiple passes) in order to maximize adhesion to the substrate and to eliminate voids.
- 6.3.6 The base coat shall be allowed to cure for at least two (2) hours, depending on temperature and humidity conditions, after which an inspection shall be performed. Any defects in the coating membrane shall be repaired with **ACRYLINK G<sup>™</sup>** or an approved building sealant.
- 6.4 **ACRYLINK G<sup>™</sup>** elastomeric coating: Subsequent Coats
- 6.4.1 IPC recommends that **ACRYLINK G<sup>™</sup>** coating be applied in contrasting color coats to improve coverage and spray pattern. Order of application shall be as contractor specifies.
- 6.4.2 The surface of the **ACRYLINK G<sup>™</sup>** base coat, and all subsequent coats, shall be free of all moisture, dirt, and debris before a subsequent coat is applied.
- 6.4.3 The second coat of **ACRYLINK G<sup>™</sup>** shall be applied as soon as practical, within 24-72 hours of the application of the base coat.
- 6.4.4 The second coat, and all subsequent coats, shall be applied at a right angle to the direction in which the previous coat was applied. For example, if the previous coat was applied with a north-south motion, the subsequent coat shall be applied with an east-west motion.
- 6.4.5 The second coat, and all subsequent coats, shall be applied by conventional airless spray or roller at the rate specified to achieve the TDM minimum in a reasonable number of coats. Each coat shall completely mask the color of the previous coat.
- 6.4.6 The second coat, and all subsequent coats, may be applied in more than one pass, if desired, to accelerate curing, provided adequate curing time has been allowed between passes to prevent damage from being done to the membrane when it is walked upon.
- 6.4.7 Subsequent coats shall be applied by conventional airless spray or roller at the rate required to achieve the TDM minimum.
- 6.4.8 Each coat shall be allowed to cure for at least four (4) hours, depending upon temperature and humidity conditions, and inspected and repaired as necessary, before a subsequent coat is applied.
- 6.5 **ACRYSHEEN<sup>™</sup>** surface coating: Optional Coat
- 6.5.1 At the contractor's option, a top coat of **ACRYSHEEN<sup>™</sup>** surface coating may be applied by conventional airless spray or roller at a minimum rate of ½ gallon per 100 square feet. ½ gallon per 100 square feet of **ACRYSHEEN<sup>™</sup>** surface coating may be substituted for ¼ gallon per 100 square feet of **ACRYLINK G<sup>™</sup>** elastomeric coating.
- 6.5.2 Surface coat may be applied in more than one pass, if desired, to accelerate curing. Adequate curing time shall be allowed between passes.
- 6.5.3 Surface coat shall be applied at a right angle to the direction in which the previous coat was applied. Surface coat shall completely mask the color of the previous coat.
- 6.5.4 Surface coat shall be allowed to cure for at least four (4) hours, and inspected and repaired as necessary, before a subsequent coat is applied.
- 6.6 The cured **ACRYLINK G<sup>™</sup>** elastomeric coating system membrane shall be TDM minimum in all areas and shall be free of all pinholes and defects.
- 6.7 Required spread rates for the **ACRYLINK G<sup>™</sup>** membrane are as follows:
- 6.7.1 5-year application: 2.75 gallons per 100 square feet of **ACRYLINK G<sup>™</sup>** total (27.5 dry mil average, 23 dry mil minimum).
- 6.7.2 10-year application (pitched): 3.67 gallons per 100 square feet of **ACRYLINK G<sup>™</sup>** total (37 dry mil average, 32 dry mil minimum).
- 6.7.3 10-year application (flat): 4.125 gallons per 100 square feet of **ACRYLINK G<sup>™</sup>** total (41.5 dry mil average, 36 dry mil minimum).
- 6.7.4 20-year application (pitched): 5.5 gallons per 100 square feet of **ACRYLINK G<sup>™</sup>** total (55.0 dry mil average, 48 dry mil minimum).
- 6.7.5 20-year application (flat): 6.0 gallons per 100 square feet of **ACRYLINK G<sup>™</sup>** total (60 dry mil average, 52 dry mil minimum).
- 6.7.6 For the purposes of IPC specifications, "pitched" refers to a roof with a minimum slope of 1 in 12.
- 6.8 Having completed the procedures specified above, and having achieved the TDM minimum in all areas, the **ACRYLINK G<sup>™</sup>** membrane shall be given adequate time to cure.
- 6.9 For a minimum of thirty (30) days after the **ACRYLINK G<sup>™</sup>** membrane has been applied, contractor shall be responsible to inspect the membrane after every precipitation. During this period of time, contractor shall carefully remove water from small ponding areas ("birdbaths") with an air blower, without damaging the **ACRYLINK G<sup>™</sup>** membrane.

### Section 7.0 Clean-Up

Upon completion of all work covered in this specification, and before the job is inspected, the contractor shall remove all equipment, material, and debris, leaving the area in an undamaged and acceptable condition. In no case shall the job be considered complete before the job site has been properly cleaned.

### Section 8.0 Limitations

This system is to be used only in conjunction with commonly accepted waterproofing and roofing standards including but not limited to the following:

- 8.1 In order to qualify for a factory warranty, applicator must have Approved Applicator status, the roof must meet the square foot minimum, the **ACRYLINK G<sup>™</sup>** membrane must be continuous, and the membrane must meet the TDM minimum.
- 8.2 No application of component materials shall commence during inclement weather, when a precipitation appears imminent, when temperature is below 45 °F, or when relative humidity exceeds 85%.
- 8.3 No material shall be applied to wet, dirty, or frozen surfaces.
- 8.4 Coating application shall not commence until all other trades are off of the roof.

- 8.5 Coating shall not be applied to areas of gross ponding water. Contractor shall address and eliminate areas of gross ponding water prior to coating application.
- 8.6 In conjunction with the final inspection, all debris, material, and equipment are to be removed, leaving the area in an undamaged and acceptable condition.