PO Box 6256
Mobile AL, 36606
1-800-771-6643

APPLICATION SPECIFICATIONS
Coating Granulated Modified Bitumen & Built Up Cap Sheet — Acrylic System

Each job must be approved by American WeatherStar before the project begins to be eligible for a warranty.

PART 1 — GENERAL

1.01 DESCRIPTION

A. The intention of this specification is to outline the procedures for the application of WeatherStar Coatings reflective roof coatings for the purpose of coating **Granulated Modified Bitumen & Built Up Cap Sheet Roof** surfaces. These suggested specifications describe materials, methods and conditions necessary for the proper application of WeatherStar Coatings. Actual application requirements may vary and are the responsibility of the contractor.

B. This specification may not outline all procedures for preparation and finishing of penetrations, drains, flashings, etc. This work should be outlined separately by the contractor before the work commences and shall be performed observing good trade practices.

1.02 APPROVED APPLICATOR

A. All WeatherStar Coatings products shall be applied by a single, experienced and competent Approved Applicator or applicator approved by WeatherStar Coatings.

B. Contractor shall be an Approved Applicator of WeatherStar Coatings and doing business under the same company name. Financial stability shall include no filing of bankruptcy during the past seven years.

PART 2 — PRODUCTS

2.01 COATINGS AND RELATED MATERIALS

All Materials used shall be manufactured by and or approved by WeatherStar Coatings and shall meet the following specifications.

2.02 ELASTOMERIC COATING SYSTEM

ACRYLIC 211
Type: Solar reflective coating
Viscosity: 4500 cps
Elongation: 225%
Tensile Strength: 225 psi
Density: 1 0.6 ± 2 lbs./gal.
Volume Solids: 58% ± 2% by weight
Color: White

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BUTYL 310
Type: Solar reflective coating
Viscosity: 2000-2500 CPS
Elongation: 900% (ASTM D-412)
Tensile Strength: 1000 psi (ASTM D-412)
Density: 7.0 ± .1 lbs./gal.
Weight Solids: 40%
Color: White

ACRYLIC BONDING PRIMER 905
Type: Primer / Surface conditioner
Viscosity: 600-800 cps
Density: 8.4 ± .1 lbs./gal.
Volume Solids: 38 % ± 1% by weight
Color: Gray

FABRIC BOND 930
Type: Primer / Surface conditioner
Viscosity: 600-800 cps
Density: 8.3 ± .1 lbs./gal.
Volume Solids: 38 % ± 1% by weight
Color: Blue

POLYESTER FABRIC
Type: Spunbound polyester
Tensile: 57 lbs.
Elongation: 61%

2.03 DELIVERY AND STORAGE

A. Materials shall be delivered in their original, tightly sealed containers or unopened packages, all clearly labeled with the manufacturer's name, file number, and lot numbers.

B. Materials shall be stored out of the weather in their original tightly sealed containers or unopened containers as recommended by the manufacturer.

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2.04 WARRANTY

A. American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of existing roof substrate or previously applied coatings are beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.

B. Comply with manufacturer's warranty application procedures. A Pre-Project Inspection Report should be submitted and approved prior to job commencement.

C. Protection of building and occupants: All surfaces not to receive system specified shall be protected from overspray hazard, i.e. windows, doors, exterior and vehicles. Protective coverings shall be secured against wind and shall be vented if used in conjunction with applications preventing collection and moisture.

PART 3 — INSTALLATION

3.01 SURFACE PREPARATION

A. Preparation shall include all requirements specified by American WeatherStar to ensure proper adhesion of the American WeatherStar products to the substrate. (An adhesion test may be necessary.)

B. Preparation shall include, but not be limited to the following:

1. All unnecessary and non-functional equipment and debris shall be removed from the roof.
2. Substrate must be pressure-washed. A minimum working pressure of 3,000 psi shall be used to remove all dirt, dust, previous paints and coatings which are delaminating as well as waste products (oil, oil-based roof cements, solvents, grease, animal fats, etc). Use TSP (Tri Sodium Phosphate). Contact WeatherStar Coatings for additional information.
3. HVAC condensate drains shall be properly routed to roof drains or plumbed off the roof.
4. Wet roof insulation and damaged membranes are to be removed and replaced as necessary to match existing specified material.
5. All roof penetrations, curbs, vent stacks and related roof penetrations are to be flashed in accordance with roof manufacturer's specifications. All laps and wall flashings are to be repaired in accordance with roof manufacturer's specifications.

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6. Contractor shall make every effort to mechanically eliminate all ponding water areas on the roof surface prior to application of any roof coating product.

3.02 PRIMER APPLICATION

A. Examine substrate to receive roof coating. Do not proceed with installation of the WeatherStar Coatings roof coating until all problem areas have been corrected in a manner acceptable to the manufacturer.

B. Treatment of Residual Asphalt: Installer shall make every effort to remove all loosely adhered asphaltic roofing elements. Removal efforts must include the use of pressure-washers, scrapers, wire brushes, wire-wheels, or other similar tools. All areas of roof that have been previously coated should be primed with Fabric Bond 930 or Acrylic Bonding Primer 905 at a rate of 1 gallon per 100 square feet. An adhesion test should be conducted with one of these primers to ensure proper adhesion to the existing coating. (Note - Adhesion to the existing roof substrate depends on the condition of any existing coating.)

3.03 COATING APPLICATION

A. Examine substrate to receive roof coating. Do not proceed with installation of WeatherStar Coatings until unsatisfactory conditions have been corrected.

B. All seams, penetrations, and parapet walls are to be flashed using Fabric and Acrylic 211 or Fabric Bond 930. Apply a thin layer of coating into each seam, roll out 4" or 6" Fabric into the wet coating then apply another layer of coating over the fabric. Coating should be three inches wider and feathered so that the fabric is encapsulated and water is able to flow properly. The same procedure should be used on all parapet walls using 36"-40" Fabric with one half of the fabric running up the wall. All penetrations should be flashed using Acrylic 211 and either 4" or 6" Fabric.

C. Repair all cracks and splits in roof using Acrylic 211 and 4" or 6" Fabric in the same manner as each seam is repaired. If cracks and splits are predominate throughout the roof, a full fabric system may be required. Please contact WeatherStar Coatings for more information.

3.04 APPLICATION RATES (28-30 MIL SYSTEM)

A. BASE COAT: Apply base coat of Acrylic 211 roof coating at a rate of 1.5 gallons per 100 square feet. Dry film thickness shall be approximately 14-15 mils.

B. TOP COAT: Apply a top coat of Acrylic 211 roof coating at a rate of 1.5 gallons per 100 square feet. Dry film thickness shall be approximately 14-15 mils.

C. Each coat must be allowed to dry for 24-48 hours depending on humidity and temperature. The roof is to be inspected for defects, flaws or holidays and repaired if necessary.

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NOTE: Acrylic 211 can be substituted with several of the other American WeatherStar products, call for details and coverage rates.

D. Base coat and final coat are to be applied at a rate of 3 gallons per 100 square feet - 1 base coat, 1 final coat. (28-30 dry mil average).

3.05 PONDING

A. Known ponding water areas are to be repaired using commonly acceptable roofing practices so as to allow proper drainage of roof area.

B. Ponding water areas are a sign of possible mechanical failure in the roof. Water is to be intentionally diverted from ponding areas using accepted roofing practices. Ponded areas which evaporate within 7 days (under 1/2" deep) can be top coated with Butyl 310 to increase water resistance.

C. Application of Butyl 310 is to be made at 50 square feet per gallon.

D. The Butyl 310 is to be extended 2 feet beyond the ponded area.

3.06 RESTRICTIONS / LIMITATIONS

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

A. No application of materials shall commence during inclement weather or when precipitation is imminent.

B. No materials are to be applied to wet, dirty, or frozen surfaces.

C. In conjunction with the final inspection, all debris, containers, materials and equipment are to be properly removed from the job site. Grounds are to be cleaned, undamaged, and acceptable to the owner.

D. Reflectivity of coatings may be reduced if roof surface is not cleaned on a regularly scheduled basis.

CAUTION: Do not apply within two hours of sunset, rain, fog or freezing temperatures. WeatherStar Coatings must be completely dry before exposing to water or foot traffic. Keep WeatherStar Coatings containers covered when not in use. Dispose of all containers in accordance with state and local environmental regulations. Keep away from children. If ingested, DO NOT induce vomiting. Call Physician immediately.