

TopCoat® Restoration Specifications Wallcote™ Exterior Wall Protection System Block, Stucco and Tilt-Up Wall Panels

Information Sheet

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From North America's Largest Roofing Manufacturer™*

TOPCOAT® RESTORATION SPECIFICATIONS

WallCote™ Exterior Wall Protection System Block, Stucco and Tilt-Up Wall Panels

Part 1 – General

WallCote™ products are combined to form a high solids, low VOC (volatile organic content) coating system for waterproof protection of properly prepared above-grade metal, vinyl and aluminum siding, concrete, masonry walls, brick and stucco as well as walls clad with other materials such as some wood surfaces.

1.01 SYSTEM DESCRIPTION

WallCote™ Elastomeric Wall Coating, WallCote™ Flashing Sealant and WallCote™ Block Primer are liquids, water-based coating, flashing compound and primer, respectively, that are used to form a protective exterior wall coating system. As with any coating system, the durability of the WallCote™ System is greatly influenced by the receptivity and cleanliness of the surface to be coated, which are directly related to the quality of the surface preparation.

1.02 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Provide primary products, including WallCote™ Elastomeric Wall Coating Membrane, WallCote™ Flashing Sealant, WallCote™ Block Primer, WallCote™ Joint Sealant, etc. by a single manufacturer. Provide secondary products only as approved by the manufacturer for use with the specified WallCote™ System.
- B. Installer Qualifications: A single applicator or firm approved by GAFMC shall perform the work of this section.

1.03 SUBMITTALS

Product Data: Submit technical product data and manufacturer's installation recommendations for each component of the coating system. Include data substantiating that materials comply with requirements.

1.04 LIMITATIONS

The system is not intended for use below grade, on horizontal decks or in swimming pools. Adequate adhesion cannot be obtained to surfaces coated with Kynar®-500, or silicone coatings. Do not apply products in temperatures below 42°F.

1.05 ENVIRONMENTAL REQUIREMENTS

Do not begin work if rain is expected within twelve hours of application or if temperatures are expected to fall below 42°F during the duration of the job.

NOTE: Do not apply the primer or coating in high winds unless work is shrouded.

1.06 PRODUCT HANDLING

Store and handle WallCote™ materials in a manner that will ensure there is no possibility of contamination. Store in a dry, well ventilated, weathertight place, at temperatures between 50° and 80°F. Do not stack pallets more than two high.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

GAF Materials Corporation

2.02 MATERIALS

Note Drying Times: Listed drying times for various TOPCOAT® products are directly affected by environmental conditions and thickness of application. Allow additional drying time when experiencing high relative humidity, low temperatures and/or very thick product application to prevent improper curing and/or product “wash-off”.

See limited warranty for complete coverage and restrictions.

A. WALLCOTE™ Block Primer

WallCote™ Block Primer is a clear, water-based primer formulated for application to porous or chalking concrete and masonry surfaces. Apply Block Primer prior to WallCote™ Wall Coating or WallCote™ Flashing Sealant to reduce absorption and pinholing, and improve coverage of the finish coat. Do not apply at temperatures below 42°F. Substrate temperatures must be below 100°F when applying product

Application Rate:	1 gallon/150 sq. ft.
Application Method:	Brush, low-nap roller or airless sprayer
Application Temp (air, surface):	42°F - 100°F
Drying Time (75°F, 50% RH):	1-2 hours
Wet Mil Thickness:	(1.0 Gallon/100SF) - 16 wet mils
Dry Mil Thickness:	(1.0 Gallon/100SF) - 3-4 dry mils
Total Solids (by weight):	23% ± 5%
Total Solids (by volume):	21% ± 2%
Specific Gravity:	1.02 ± 0.1
Weight per Gallon:	8.5 ± 0.5lbs
Viscosity (75°F):	150 ± 50 cps
Clean-up:	Water

B. WALLCOTE™ Flashing Sealant

WallCote™ Flashing Sealant is a light gray, water-based synthetic rubber sealant for application to wall penetrations, openings, and structural cracks to protect against water infiltration. Do not apply at temperatures below 42°F. Substrate temperatures must be below 120°F when applying product

Application Rate:	5 gallons/125 ft. (6" width)
Application Method:	Brush or caulking gun
Application Temp (air, surface):	42° - 120°F
Drying Time (75°F, 50% RH):	Approximately 24 hours
Recommended Wet Mil Thickness:	105 wet mils
Recommended Dry Mil Thickness:	60 dry mils
Total Solids (by weight):	68% ± 1%
Total Solids (by volume):	56% ± 2%
Specific Gravity:	1.44 ± 0.1
Weight per Gallon:	12.0 ± 0.5 lbs
Viscosity (75°F):	225,000 ± 22,500 cps
Clean-up:	Water before curing

C. WALLCOTE™ Elastomeric Wall Coating

WallCote™ Wall Coating is a water-based elastomeric membrane formulated with higher solid content than paint to provide a waterproofing and sealant system for exterior walls. Provides superior adhesion on all typical exterior wall surfaces, including vinyl and aluminum siding, wood, concrete, masonry and metal. It is available in white and 16 standard colors. Custom tinting is available upon request. Do not apply at temperatures below 42°F. Substrate temperatures must be below 100°F when applying product

Application Rate:	1 gallon/100 sq. ft. per coat
Application Method:	Airless sprayer or roller
Application Temp (air, surface):	42°F - 100°F
Drying Time (75°F, 50% RH):	Approximately 12 hours
Wet Mil Thickness:	(1.0 Gallon/100SF) - 16 wet mils
Dry Mil Thickness:	(1.0 Gallon/100SF) - 7 dry mils

Total Solids (by weight):	60% ± 2%
Total Solids (by volume):	45% ± 2%
Specific Gravity:	1.37 ± 0.1
Weight per Gallon:	11.41 ± 0.5 lbs
Viscosity (75°F):	15,000 ± 2,500 cps
PH:	10.0 ± 1.0
Elongation:	25 ± 75%
Tensile Strength:	275 ± 25 psi
Moisture Vapor Permeance:	9.8 perms (ASTM E96-80)
Low-Temperature Flexibility:	13-15 mil dry film will bend 180° @ -30°F without fracturing
Mildew Resistance:	ASTM G-21, Pass
Fungus Resistance:	FTMS 141.6271, Pass
Weatherability:	1,000 hours Weather-o-meter® exposure: Tensile Strength: 150% original Elongation: 85% original UV – 4,000 hours: No cracking, embrittlement or loss of adhesion
Clean-up:	Water before curing

Note: Use airless sprayer and accessories as recommended by GAFMC for application of the WallCote™ Wall Coating System.

PART 3 – EXECUTION

3.01 GENERAL SURFACE ACCEPTABILITY AND PREPARATION

- A. Surface is acceptable for application of WallCote™ Block Primer and WallCote™ Elastomeric Wall Coating when the surface is:
1. Dry (below 12% by an electric moisture meter).
 2. Dust-free (a dark cloth wiped over the surface does not pick up a white powder).
 3. Oil-free (water sprinkled on the surface washes away immediately and does not stand in droplets).
 4. Free of residue (a putty knife scraped over the surface does not pick up loose or powdery material).
 5. Has a pH between 4 and 10 (measured by pH paper on spots dampened with water).
 6. Consolidated (non-friable).
- B. Repoint Masonry Joints, Repair Tie and Other Holes: For holes less than 1/2 inch deep, after wire brush scrubbing to remove all loose debris, dampen the surface, and overfill the hole with mortar. Press the mortar into the hole, strike the mortar off to leave the patch slightly higher than and emulating the roughness of the surrounding surface. **DO NOT SEAL THE WEEP HOLES!** Note: All patches will be visible through the finished coating. If there is extensive masonry repointing work required, cut out the existing joints and repoint them with the masonry mortar as in the following paragraphs.

To repoint existing masonry joints, remove mortar from the joints to a depth of at least 1/2 inch, but no more than 3/4 inch. Sawcutting may be used to remove mortar in the center part of the joint, but the mortar in contact with the masonry units may only be removed by hand chisel. Remove all dust from the joints. Prepare ASTM Type N mortar by mixing by machine, for 3 to 5 minutes, equal volumes of portland cement (ASTM C 150, Types I or II) with hydrated lime (ASTM C 207, Type S) and five

volumes of mason's sand (ASTM C 144, 2 to 2.5 fineness modulus), with enough clean water to form a stiff mix that will form a ball when shaped in the palm of the hand. After one hour, add additional water, and remix the mortar to obtain the proper application viscosity. Use the mortar within 2 hours of mixing, at temperatures over 74°F, and up to 2 1/2 hours at temperatures between 50°F and 74°F. After the application of a neat cement brush coating in the joint, apply the mortar in 1/4 inch thick layers, and compress each layer with an appropriate tool to exclude all voids. Strike the mortar off flush when the joint is filled. Tool the mortar with a pointing tool when the mortar is thumbprint hard to match the surrounding joints. Do not stain any surfaces with mortar droppings, and dry brush all exposed surfaces daily to remove all mortar droppings.

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- C. Wherever form release agents, concrete curing additives, or chemicals have been added to the concrete to retard evaporation, test patches should be prepared to insure adhesion of the Wallcote products test patches should be allowed to cure fully for 7 days. Do not start the coating work until both the Contractor and the Owner are satisfied with the adhesion obtained in the test area.

3.02 APPLICATION

- A. Limitations: Apply the WallCote™ Exterior Wall Coating System to surfaces that have been properly prepared when proper environmental conditions exist.
- B. Masking: Mask off windows, weep holes and other surfaces that are not to be coated.
- C. WallCote™ Block Primer Application:
1. Treatment of Porous Surfaces: Apply WallCote™ Block Primer to porous surfaces at the rate of 1 gallon per 150 square feet to minimize excessive WallCote™ Exterior Wall Coating usage due to the penetration of the coating into the block pores.
 2. Treatment of Moderate to Heavy Chalking Substrates: Seal chalking substrate with WallCote™ Block Primer at the rate of 1 gallon per 150 square feet. Allow 2 hours drying time prior to proceeding with prep work.
- D. WallCote™ Joint Sealant Application: For use around the perimeter for all windows and doors. Apply 1/4" bead of WallCote™ Joint Sealant into all perimeter joints to properly seal them. For various types of expansion joints, neatly apply WallCote™ Joint Sealant over the entire joint, being careful not to leave any voids. Joint width and depth should not exceed 1 1/4" and 1/2", respectively.
- E. WallCote™ Flashing Sealant Application: Seal all penetrations, exterior openings, and cracks with a knife application of WallCote™ Flashing Sealant. Do not apply more than 1/4" depth of WallCote™ Flashing Sealant in one application. If depth of crack or joint exceeds 1/2", proper backing material must be utilized.
1. Treatment of Hairline and Shrinkage Cracks: Apply a liberal amount of WallCote™ Flashing Sealant over center of crack. Feather sealant to either side of crack, reducing thickness to zero toward perimeter of patch.
 2. Treatment of Movement Cracks (Non-Structural): Seal cracks up to 1/16" as described above. Cracks and joints larger than 1/16" are to be routed out to approximately 1/4" width x 1/4" depth. Thoroughly clean void and fill with WallCote™ Flashing Sealant. Build a small crest over void to allow for product shrinkage.
- NOTE: WallCote™ Flashing Sealant Textured Grade is recommended for use on textured surfaces. Work product with knife to obtain a texture uniform with substrate. DO NOT SEAL THE WEEP HOLES!
- F. Allow the WallCote™ Flashing Sealant to dry and cure for at least 12 hours before coating. Examine all voids and cracks for sealant shrinkage. Reapply WallCote™ Flashing Sealant to concave areas to obtain a level surface.
- G. WallCote™ Elastomeric Wall Coating Application:
1. Spray and immediately back roll WallCote™ Elastomeric Wall Coating at the rate of 1.0 gallon per 100 square feet (the application rate will vary with the texture and porosity of the substrate). Allow the base coat to dry for 12 hours. Inspect and correct all uncoated cracks, pinholes or holidays.
 2. Spray or roll apply a second application of WallCote™ Elastomeric Wall Coating at the rate of 1.0 gallon per 100 square feet. If roller coating is used, end each roller application in a downward stroke. Allow the final coating to cure for 12 hours. Inspect and correct all cracks, fissures and pinholes. Specified dry membrane thickness is 15 dry mils.

For application questions, please contact GAFMC Contractor Services at 1-800-766-3411.

Note: Repair leaks promptly to avoid adverse effects, including mold growth.