



GUIDE SPECIFICATION

TEX·COTE® COOLWALL®

Division 09960- Exterior Textured Coating-Heat Reflective

Part 1 General

1.01 Related Work

A. Surfaces to receive TEX·COTE® COOLWALL® as noted on plans.

1.02 System Description

A. TEX·COTE® COOLWALL® is a heat reflective water based coating system specially formulated for providing cooler wall temperatures, Total Solar Reflectivity, color stability and resistance to salt spray, moisture, mildew and wind driven rain resistance.

1.03 Submittals

A. Product Data: Submit manufacturer's technical information and application instructions for each material.

B. Wall Sample:

1. General: For each coating system specified, provide eight (8) foot by eight (8) foot wall sample for Architect's approval prior to beginning project application.

C. Manufacturer's recommended application procedures and technical data which, when approved by architect, will become the basis for accepting or rejecting the product and actual application procedures used on the wall.

Part 2 Products

2.01 Products

Textured Coatings of America, Inc
5950 S. Avalon Blvd.
Los Angeles, CA 90003
(323) 233-3111

Textured Coatings of America, Inc
2422 E. 15th St.
Panama City, FL 32405
(850) 769-0347

2.02 Material

Coating Systems

1. TEX·COTE® COOLWALL™ finish coat.
2. TEX·COTE® Classic Smooth Primer.
3. TEX·COTE® Textured primer.

Textures and colors as indicated on Drawings or selected by architect/owner.

Part 3 Execution

3.01 Surface Preparation

A. General: Perform preparation and cleaning procedures in accordance with coating system manufacturer's instructions and as herein specified, for each particular substrate and coating condition.

3.02 Application

A. Apply coating in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.



TEX-COTE® COOLWALL®

NEW CONSTRUCTION

Division 09960 – Exterior Textured Coating – **HEAT REFLECTIVE**

Part 1 General

1.01 SUMMARY

TEX-COTE® COOLWALL® COATING SYSTEM

1.02 DESCRIPTION

TEX-COTE® COOLWALL® COATING SYSTEM is a water based copolymer coating featuring Total Solar Reflectance (TSR) for cast-in-place Concrete, Masonry, Tilt-Wall Panels, and other manufacturer approved surfaces as indicated on the drawings, as scheduled, or specified.

1.03 SUBMITTALS

- A. Furnish manufacturer's Technical Data Sheets and MSDS and drawdowns in texture and colors.
- B. Samples: Submit 8"x 10" drawdown samples for each color and texture selected. Sample shall be made of coating specified; match color selected by Architect/Owner.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 10 years successful experience in supplying materials of the types equivalent to those required for this project.
- B. Coats: The number of coats specified is the minimum acceptable. If full coverage is not obtained with the specified number of coats, apply such additional coats as necessary to produce the required finish.
- C. Employ coats and undercoats for all finishes pursuant to the paint manufacturer's instructions.
- D. Regulatory Agency Requirements:

- a. Comply with state and local regulations governing use of paint materials.
- b. Comply with OSHA guidelines for protective clothing, glasses, gloves, and respirators as required for project conditions.

1.05 FIELD SAMPLES

- A. Submit Mock -Up sample panel on jobsite building or surface as selected by Architect/Owner/General Contractor. Provide a 10'x 10' sample for each separate substrate using the actual substrate materials.
- B. Obtain approval of texture and color prior to proceeding.
- C. Field samples may be part of the actual work.

1.06 JOB CONDITIONS

- A. Environmental Requirements:
 - 1. Environmental conditions can be modified only if such requirements are a part of the manufacturer's application instructions or if the manufacturer supplies a letter amending the environmental conditions.
 - 2. Ambient Air temperature: At least 45° F degrees but not exceeding 100° F degrees during application.
 - 3. Precipitation: Do not apply primer and coating materials during precipitation and when precipitation is imminent or anticipated.
 - 4. Apply coating to surfaces that are free of surface moisture.
 - 5. Ultraviolet Light: Do not allow primer to be exposed to ultraviolet light for more than four weeks prior to application of coating. If exposure exceeds the four week limit, apply additional coat of primer.
 - 6. Do not apply coating in areas with airborne dust or where dust can be generated.



- B. Roof and parapet top caps shall be installed and sealed against water penetration prior to coating. Verify water tightness.
- C. Allow installed joints to cure according to sealant manufacturer's recommendations prior to coating.
- D. Ensure that retaining walls, planter boxes and below grade surfaces are waterproofed on the side against the earth prior to application of finish to exposed surfaces.

1.07 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Packaging: Delivery materials to job site in manufacturer's original unopened containers, with labels intact and readable, listing manufacturer coating type, product name and batch.
- B. Manufacturer's Instructions: Comply with manufacturer's instructions for storage and handling, including cautions on product data safety sheets.

1.08 WARRANTY

- A. Upon completion of application of coating in accordance with the manufacturer's recommendations, Textured Coatings of America, Inc. will extend its limited commercial warranty for product replacement as a result of defect in the material.
- B. The manufacturer must be notified prior to the application of the coating and the applications must be in compliance with the manufacturer's recommendation for installation. Textured Coatings of America, Inc. shall have no obligation to contribute to or otherwise participate in labor or cost associated with effecting repairs.
- C. Specimen copy of material warranty available upon request.



Part 2 Products

2.01 MATERIALS

A. Primer: TEX·COTE® SUPER·COTE™ Smooth Classic Primer or TEX·COTE® SUPER·COTE™ Textured Primer depending on appearance desired by architect/owner.

B. TEX·COTE® SUPER·COTE™ COOL WALL™ coating shall conform to the following performance criteria:

Table 1 Applicable Standards American Society for Testing Materials (ASTM)

<u>Test Method</u>	<u>Property</u>	<u>Result</u>
ASTM D2565-99-T-1, C # 4	Accelerated Weathering	5000 Hours, Passed
ASTM B117	Salt Spray Resistance	100 Hours - Passed
ASTM D714	Blistering Resistance	100 Hours - Passed
ASTM D610	Rusting Resistance	100 Hours - Passed
ASTM D968	Abrasion Resistance	825 liters falling sand
ASTM D3273/D3274	Mold & Mildew Resistance	28 Days- Rating 10, No growth
ASTM D6940	Wind Driven Rain Resistance	Passed
ASTM C67/D2794	Freeze-Thaw Resistance	50 cycles - Passed
ASTM D4585	Humidity Resistance	100 Hours - Passed
ASTM E96	Permeability	Passed
ASTM C1305	Crack Bridging	No cracks, separation or loss of film
ASTM D 4803-97	Total Solar Reflectivity	Surface wall temperature reduced up to 40 degrees Fahrenheit depending on color and geographical location as compared to commercial acrylic paint.

Table 2 Physical Properties

Water based acrylic copolymer blend

<u>Test Property</u>	<u>Typical Result</u>
Solids by weight	51.5%
Solids by Volume	36.0%
Weight per Gallon	10.5 lbs.
Moisture Vapor Permeability	7.5 Metrics perms (with Primer)
Resin base	100% Acrylic

Table 3 Total Solar Reflectance (TSR) Color Ranges by %

Light Colors	25% - 35%
Medium Colors	55% - 65%
Dark Colors	100% or greater

Percentage increased as compared to conventional acrylic paints.

C. Patching Compounds

1. TEX·COTE® FLEX PATCH® BUTTERY or KNIFE for cracks 1/32 or smaller
2. TEX·COTE® FLEX PATCH® Smooth for cracks 1/32 to 1/8

2.02 Application Equipment

A. Application for TEX·COTE® SUPER·COTE™ Textured Primer--Graco GM1030 Tech spray, Graco 10:1 President or equal.

B. Application for TEX·COTE® SUPER·COTE™ COOL WALL™ Heat Reflective coating and Classic Smooth Primer--Graco 5900 or equal using: 0.17 - 0.19 Tip SUPER·COTE™ ; 0.25 - 0.29 Tip Classic Primer

2.03 MANUFACTURER

Textured Coatings of America, Inc. - Contact one of the office for the local representative in your area:

Corporate office and Eastern Plant

2422 East 15th Street
Panama City, FL 32404
850-769-0347 • FAX 850-913-8619

Fort Lauderdale Sales office

4101 Ravenswood Rd. Suite 218
FT. Lauderdale, FL 33312
954-581-0771 • FAX 954-581-9516

Western Plant

5950 S. Avalon Blvd.
Los Angeles, CA 90003
323-233-3111 • FAX 323-232-1071

2.04 COLORS AND TEXTURES

As indicated in drawings/color schedule or selected by Owner/Architect.



Part 3 EXECUTION

3.01 INSPECTION

Examine substrates scheduled to receive coating system for conditions that may adversely affect the work. Do not proceed with the work of this Section until unsatisfactory conditions have been corrected. Notify the Owner, Architect or Engineer in writing of any unsatisfactory conditions.

A. Concrete/ Masonry, Stucco:

1. Verify that the bond breakers have been removed so that water will penetrate concrete.
2. Verify the curing compound is compatible or removed so that the coating system will adhere.
3. Verify all fins and projections have been removed.
4. Verify all visible cracks have been patched or repaired prior to applying any coatings.
5. Verify the repair of pockets, holes, breakouts, surface irregularities and damaged surfaces.
6. Verify that all patching materials are cementitious, and/or water resistant flexible patching compound.
7. Test that the pH of all concrete surfaces to be coated are within Manufacturer's acceptable level.

B. Caulked Panel Joints:

1. Check with the caulk manufacturer and caulk contractor that the caulk is paintable.
2. Verify the caulk is fully cured in accordance with manufacturer's directions.
3. Verify that the caulking system provides a clean, dry, smooth, and bondable surface, free of residue and site dirt.
4. The caulk shall be cleaned and primed, if required, prior to application of coating.

3.02 PREPARATION

A. GENERAL

1. Surfaces must be sound, clean and dry prior to application of primer, if needed, or coating.
2. Remove dust, dirt, mildew, form oils, bond breaker, loose substrates and other surface contaminants. Pressure wash, chemically clean or mechanically abrade as needed to provide sound, clean surface prior to application of coating or primer if needed.
3. Test surface for pH level, record and report pH results to Manufacturer's Representative.
4. Manufacturer's Representative to inspect surfaces prior to application of coating.

B. Crack Repair:

1. Address all cracks, caulk, patch or repair as follow:
 - a. Fine Cracks up to 1/32": Brush or knife TEX·COTE® FLEX-PATCH® BUTTERY or KNIFE into cracks and bring to smooth and flush with concrete surface.
 - b. Cracks 1/32" to 1/8" shall be filled and dressed uniform with surrounding surfaces with TEX·COTE® FLEX-PATCH® SMOOTH.
 - c. Cracks 1/8" or wider shall be filled with cementitious patching compound; #2 Portland Cement, 60-80 mesh sand, TEX·BOND acrylic bonding agent and water.

3.03 MATERIAL PREPARATION

- A. Remove skins formed on surface of material before moving containers, missing material, or applying material.
- B. Store material not in actual use in tightly covered containers. Maintain containers used in storage, mixing and application of coating in a clean condition, free of foreign materials and residue.
- C. Do not store in sunlight. Do not allow freezing. Material should be maintained between 45°F and 95°F for best application properties.

3.04 APPLICATION

A. APPLICATION CRITERIA

1. Apply COOLWALL® Primer, as required, to properly prepared surface. Apply a uniform, continuous, pin-hole free film over designated surface.



2. For TEX•COTE® COOLWALL® apply a uniform continuous pin-hole free film over designated surfaces at approximately 175-225sqft/gal depending on substrate porosity and texture.
3. Maintain a wet edge to prevent lap marks.
4. Continue work to a panel edge, corner, seam or other natural break.
5. Use adequate number of workers to avoid lap marks and spray patterns.
4. Do not apply material below grade or in contact with earth.

B. INSTALLATION CRITERIA

1. Completed coating system must provide a continuous pinhole free film at approximately 13-18 mils dry film thickness.
2. Completed coating system shall match the accepted Mock-Up sample.

C. FINISH COATING SYSTEM

Primers:

- COOLWALL® Classic Smooth Primer – 80-100 sq ft/gal
- COOLWALL® Textured Primer 40-50sqft/gal CT and 50-60sqft/gal FT or sand
- COOLWALL® Finish 175-225 sq ft/gal

D. FINAL INSPECTION

1. Notify manufacturer's Rep to conduct final inspection of TEX•COTE COOLWALL® System upon completion of job.
2. Unacceptable finishes will be corrected at the expense of the Contractor.
3. Contractor to provide Manufacturer with completed application for Warranty.
4. Upon successful completion of job in accordance with the Manufacturer's instructions and this specification, Manufacturer to issue Owner LIMITED WARRANTY.

3.05 CLEANING AND PROTECTION

- A. During course of work, remove discarded coating material, rubbish, cans, rags and similar construction waste from the site at the end of each workday.
- B. Upon completion of the coating work, clean window glass or other coating splattered surfaces. Protect work of other trades, whether to be coated or not, against damage by coating and finishing work. Correct any damage by cleaning, repairing or replacing and recoating, as acceptable to the Architect/Owner/Engineer.



GUIDE SPECIFICATION
TEX·COTE® COOLWALL®
RENOVATION / RETROFIT

DIVISION 09960 – EXTERIOR TEXTURED COATING – *HEAT REFLECTIVE*

Part 1 General

1.01 SUMMARY

TEX·COTE® COOLWALL® COATING SYSTEM

1.02 DESCRIPTION

TEX·COTE® COOLWALL® COATING SYSTEM is a water based copolymer coating featuring Total Solar Reflectance (TSR) and heat reflectivity for previous painted surfaces as indicated on the drawings, as scheduled, or specified.

1.03 SUBMITTALS

- A. Furnish manufacturer's Technical data Sheets and MSDS and drawdowns in texture and colors.
- B. Samples: Submit 8"x 10" drawdown samples for each color and texture selected. .

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 10 years successful experience in supplying materials of the type's equivalent to those required for this project.
- B. Coats: The number of coats specified is the minimum acceptable. If full coverage is not obtained with the specified number of coats, apply such additional coats as necessary to produce the required finish.
- C. Employ coats and undercoats for all finishes pursuant to the paint manufacturer's instructions.
- D. Regulatory Agency Requirements:
 - a. Comply with state and local regulations governing use of paint materials
 - b. Comply with OSHA guidelines for protective clothing, glasses, gloves, and respirators as required for project conditions.

1.05 FIELD SAMPLES

- A. Submit Mock -Up sample panel on jobsite building or surface as selected by Architect/Owner/General Contractor. Provide a 10'x 10' sample for each separate substrate using the actual substrate materials.
- B. Obtain approval of texture and color prior to proceeding.

1.06 JOB CONDITIONS

- A. Environmental Requirements:
 - a. Environmental conditions can be modified only if such requirements are a part of the manufacturer's application instructions or if the manufacturer supplies a letter amending the environmental conditions.
 - b. Ambient Air temperature: At least 45° F degrees but not exceeding 100° F degrees during application.
 - c. Precipitation: Do not apply primer and coating materials during precipitation and when precipitation is imminent or anticipated.
 - d. Apply coating to surfaces that are free of surface moisture.



e. Ultraviolet Light: Do not allow primer to be exposed to ultraviolet light for more than four weeks prior to application of coating. If exposure exceeds the four week limit, apply additional coat of primer.

f. Do not apply coating in areas with airborne dust or where dust can be generated.

B. Roof and parapet top caps shall be installed and sealed against water penetration prior to coating. Verify water tightness.

C. Allow installed joints to cure according to sealant manufacturer's recommendations prior to coating.

D. Ensure that retaining walls, planter boxes and below grade surfaces are waterproofed on the side against the earth prior to application of finish to exposed surfaces.

1.07 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Packaging: Delivery materials to job site in manufacturer's original unopened containers, with labels intact and readable, listing manufacturer coating type, product name and batch.

B. Manufacturer's Instructions: Comply with manufacturer's instructions for storage and handling, including cautions on product data safety sheets.

1.08 WARRANTY

A. Upon completion of application of coating in accordance with the manufacturer's recommendations, Textured Coatings of America, Inc. will extend its limited commercial warranty for product replacement as a result of defect in the material.

B. The manufacturer must be notified prior to the application of the coating and the applications must be in compliance with them manufacturer's recommendation for installation. Textured Coatings of America, Inc. shall have no obligation to contribute to or otherwise participate in labor or cost associated with effecting repairs.

C. Specimen copy of material warranty available upon request.



RENOVATION/RETROFIT

Part 2 Products

2.01 MATERIALS

- A. Primer TEX•COTE® Smooth Classic Primer
- B. TEX•COTE® COOLWALL® COATING

Test Method	Property	Result
ASTM D2565-99-T-1, C # 4	Accelerated Weathering	5000 Hours, Passed
ASTM B117	Salt Spray Resistance	100 Hours -Passed
ASTM D714	Blistering Resistance	100 Hours -Passed
ASTM D610	Rusting Resistance	100 Hours -Passed
ASTM D968	Abrasion Resistance	825 liters falling sand
ASTM D3273/D3274	Mold & Mildew Resistance	28 Days- Rating 10, No growth
ASTM D6940	Wind Driven Rain Resistance	Passed
ASTM C67/D2794	Freeze-Thaw Resistance	50 cycles - Passed
ASTM D4585	Humidity Resistance	100 Hours - Passed
ASTM E96	Permeability	Passed
ASTM C1305	Crack Bridging	No cracks, separation or loss of film
ASTM D 4803-97	Total Solar Reflectivity	Surface wall temperature reduced depending on color and geographical location as compared to commercial acrylic paint.

Table 2 Physical Properties

Water based acrylic copolymer blend

Test Property	Typical Result
Solids by weight	51.5%
Solids by Volume	36.0%
Weight per Gallon	10.5 lbs.
Moisture Vapor Permeability	7.5 Metrics perms (with Primer)
Resin base	100% Acrylic

Table 3 Total Solar Reflectance (TSR) Color Ranges by %

Light Colors	25% - 35%
Medium Colors	55% - 65%
Dark Colors	100% or greater
Percentage increased as compared to conventional acrylic paints.	

- C. Patching Compounds:
 - a. TEX•COTE® FLEX-PATCH BUTTERY or KNIFE for cracks 1/32 or smaller
 - b. TEX•COTE® FLEX-PATCH Smooth for cracks 1/32 to 1/8



2.02 APPLICATION EQUIPMENT

Application for TEX•COTE® COOLWALL® COATING and CLASSIC SMOOTH PRIMER
Graco 5900 or equal using: 0.17 - 0.19 tip SUPER•COTE; 0.25 - 0.29 tip CLASSIC PRIMER.

2.03 MANUFACTURER

Textured Coatings of America, Inc. - Contact one of the offices for the local representative in your area:

Corporate Offices & Eastern Plant
2422 East 15th Street
Panama City, FL 32405-6348
T: 850-769-0347 F: 850-913-8619

National Sales Office
4101 Ravenswood Road, Suite 218
Ft. Lauderdale, FL 33312-5371
T: 954-581-0771 F: 954-581-9516

2.04 COLORS AND TEXTURES

As indicated in drawings/color schedule or selected by Owner/Architect.



RENOVATION/RETROFIT

Part 3 EXECUTION

3.01 INSPECTION

Examine substrates scheduled to receive coating system for conditions that may adversely affect the work. Do not proceed with the work of this Section until unsatisfactory conditions have been corrected. Notify the Owner, Architect or Engineer in writing of any unsatisfactory conditions.

Concrete/ Masonry, Stucco:

- A. Verify all visible cracks have been patched or repaired prior to applying any coatings.
- B. Verify the repair of pockets, holes, breakouts, surface irregularities and damaged surfaces.
- C. Verify that all patching materials are cementitious, and/or water resistant flexible patching compound.

3.02 PREPARATION

A. GENERAL

1. Surface must be sound, clean and dry prior to application of primer, if needed, or coating.
2. Remove dust, dirt, mildew, form oils, bond breaker, loose substrates and other surface contaminants. Pressure wash, chemically clean or mechanically abrade as needed to provide sound, clean surface prior to application of coating or primer if needed.
3. Manufacturer's Representative to inspect surfaces prior to application of coating.

B. Crack Repair:

1. Address all cracks, caulk, patch or repair as follow:

- a. Fine Cracks up to 1/32": Brush or knife TEX•COTE® FLEX-PATCH BUTTERY or KNIFE into cracks and bring to smooth and flush with concrete surface.
- b. Cracks 1/32" to 1/8" shall be filled and dressed uniform with surrounding surfaces with TEX•COTE® FLEX-PATCH SMOOTH.
- c. Cracks 1/8" or wider shall be filled with cementitious patching compound; #2 Portland Cement, 60-80 mesh sand, Tex•Cote Bond acrylic bonding agent and water or equal.

3.03 MATERIAL PREPARATION

- A. Remove skins formed on surface of material before moving containers, missing material, or applying material.
- B. Store material not in actual use in tightly covered containers. Maintain containers used in storage, mixing and application of coating in a clean condition, free of foreign materials and residue.
- C. Do not store in sunlight. Do not allow freezing. Material should be maintained between 45°F and 95°F for best application properties.

3.04 APPLICATION

A. APPLICATION CRITERIA

1. Apply TEX•COTE® Smooth Classic Primer, as required, to properly prepared surface. Apply a uniform, continuous, pin-hole free (back rolled) film over designated masonry surface at a rate of approximately 80-100 square feet per gallon.
2. For TEX•COTE® COOLWALL®, apply a uniform continuous pin-hole free film over designated surfaces at approximately 175-225sqft/gal depending on substrate porosity and texture.
3. Maintain a wet edge to prevent lap marks.
4. Do not apply material below grade or in contact with earth.



3.05 APPLICATION CRITERIA

B. APPLICATION/INSTALLATION CRITERIA

1. Completed coating system must provide a continuous pinhole free film at approximately 12-14 mills dry film thickness.
2. Completed coating system shall match the accepted Mock-Up sample.

C. FINAL INSPECTION

1. Notify manufacturer's Rep to conduct final inspection of TEX•COTE SUPER•COTE System upon completion of job.
2. Unacceptable finishes will be corrected at the expense of the Contractor.
3. Contractor to provide Manufacturer with completed application for Warranty.
4. Upon successful completion of job in accordance with the Manufacturer's instructions and this specification, Manufacturer to issue Owner LIMITED WARRANTY.

3.06 CLEAN AND PROTECTION

- A. During course of work, remove discarded coating material, rubbish, cans, rags and similar construction waste from the site at the end of each workday.
- B. Upon completion of the coating work, clean window glass or other coating splattered surfaces. Protect work of other trades, whether to be coated or not, against damage by coating and finishing work. Correct any damage by cleaning, repairing or replacing and recoating, as acceptable to the Architect/Owner/Engineer.