

STANDARD SPECIFICATION
JANUARY 2010

DIVISION 4

SECTION 4B MASONRY COATINGS

4B.01 GENERAL: Comply with all of the Contract Documents.

4B.02 SCOPE OF WORK: Refer to “Division Scope of Work”

4B.03 WORK NOT INCLUDED

A. The following items are excluded from the work of this Section:

1. Masonry repair work

4B.04 MATERIALS

A. Water-based, high-build, 100% acrylic coating for exterior masonry walls (from the top of the rubble stone foundation walls, up to the top of parapets, at entire face of Side and Rear Walls).

1. Two (2) - Coat Textured Acrylic Coating System shall be Thorocoat®Fine manufactured by □-BASF The Chemical Company, or approved equal.

2. Technical Data of Thorocoat®Fine:

<u>Liquid Property</u>	<u>Test Method</u>	<u>Result</u>
Weight per gallon, lbs	ASTM D 1475	13.1 - 14.1
Solids by weight, %	ASTM D 5201	68.6
Solids by volume, %	ASTM D 5201	49
Viscosity, KU	ASTM D 562 (Stormer)	117-125
VOC content, g/L (lbs./gallon)	ASTM D 3960	55 (0.46)

3. Surface preparation, application and dry time shall be provided as per;

- a. initial inspection of work area by the company representative.

and

- b. manufacturer’s specification.

B. Water-based, 100% acrylic smooth coating for exterior walls (from the top of rubble stone foundation walls, up to the top of parapets, at entire face of Air Shaft and Court Walls).

1. One (1) - Coat Acrylic Coating shall be Thorocoat®200 manufactured by □-BASF The Chemical Company, or approved equal.

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2. Technical Data of Thorocoat®200:

<u>Liquid Property</u>	<u>Test Method</u>	<u>Result</u>
Weight per gallon, lbs	ASTM D 1475	11.3 - 12.3
Solids by weight, %	ASTM D 5201	56.3
Solids by volume, %	ASTM D 5201	39
Viscosity, KU	ASTM D 562 (Stormer)	102-108
VOC content, g/L (lbs./gallon)	ASTM D 3960	93 (0.78)

3. Surface preparation, application and dry time shall be provided as per;

a. initial inspection of work area by the company representative.

and

b. manufacturer's specification.

C. Cement-based waterproof coating for concrete and masonry (interior face of Roof Parapet Walls, exterior face of Stair and/or Elevator Bulkhead Walls and all Rubble Stone Foundation Walls)

1. Two (2) - Coat Waterproof Coating System shall be ThoroSeal® manufactured by □-BASF The Chemical Company, or approved equal.

Note: Above grade the second coat can be replaced with a Thoro® high-build architectural coating to achieve better color uniformity.

2. Technical Data of ThoroSeal®: See manufacturer's specification

3. Surface preparation, application and dry time shall be provided as per;

a. initial inspection of work area by the company representative.

and

b. manufacturer's specification.

D. Clear water-based, 40% silane penetrating sealer for exterior brick walls (exterior face of entire Front Building Facade), including all stone sills, stone lintels, decorative stone elements.

1. Single-component, water-based, blended silane/siloxane Water Repellent Sealer System shall be Enviroseal® Double 7 Hydrozo manufactured □-BASF The Chemical Company, or approved equal.

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2. Technical Data of Enviroseal®Double 7 Hydrozo:

<u>Physical property</u>	<u>Result</u>
Composition	Aqueous silane/polysiloxane blend
Total solids and active ingredients by weight	Approximately 12%
VOC Content	312 grams/liter
Density	8.3 lbs./gal
Specific gravity	1.00 kg/liter
Flash point (ASTM D 3278)	Greater than 212°F (100°C)
Percentage reduction of leakage on brick wall (ASTM E 514)	Greater than 94.8%
Moisture vapor transmission rate (ASTM D 1653)	49.8 grams/ft ² /24 hours or 86% of untreated substrate
Penetration depth	1/16" - 3/8" (1.6 mm - 9.5 mm) depending upon substrate
Accelerated weathering (QUV)	No change - 1,500 hours

3. Surface preparation, application and dry time shall be provided as per;
- a. initial inspection of work area by the company representative.
 - b. manufacturer's specification.

4B.05 SUBMITTALS

1. Submit manufacturer's technical bulletins.
2. Sample of manufacturer's limited warranty and warranty application procedures.

4B.06 DELIVERY, STORAGE AND HANDLING

1. Deliver coating system materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
2. Store tightly sealed coating system materials off the ground and away from moisture, direct sunlight, extreme heat and freezing temperatures.

4B.07 QUALITY ASSURANCE

1. Applicator
 - a. Minimum of 5 years experience in the successful application of acrylic textured coatings.
 - b. Successful completion of a minimum of 3 projects of similar size and complexity to the specified work.

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2. Install at the project site a pre-selected job mock-up, 5 feet by 5 feet, using specified coating system. Obtain Architect's/Engineer's approval of surface preparation, repair, color, texture, finish and workmanship. Apply material in strict accordance with manufacturer's written application instructions. Mock-up must be approved and accepted prior to start of system application. Maintain mock-up during construction for comparison.

4B.08 GUARANTEES

1. Guarantee all items of work furnished and installed under this Section for (1) one year, in addition, upon completion of all work standard manufacturer's limited warranty for (5) five years, shall be provided. All guarantees to be from the date, when **Final Certificate of Occupancy** is issued from Department of Buildings.

END OF SECTION