SECTION 09270

INTERIOR PLASTER COATED FOAM SHAPES SYSTEM

Note: This specification is only a guide for experienced specification writers and should not be used as an actual specification without appropriate modifications for specific use intended. It must be integrated into and coordinated with procedures of each Consulting firm, EVEREST MOULDINGS AND SPECIALTIES and requirements of specific project(s).

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. System consists of adhesive attachment and pre-manufactured Interior Precoated Foam. Shapes consisting of; precut foam insulation core shapes; and lightweight polymer-modified flexible cementitious coating with acrylic plaster finish.

1.02 RELATED SECTIONS

A. Section 06200 - Finish Carpentry.
B. Section 06400 - Architectural Woodwork.
C. Section 07900 - Joint Sealers.
D. Section 09200 - Plaster Work.
E. Section 09250 - Gypsum Board Work.
F. Section 09300 - Tile.
G. Section 09500 - Ceilings.
H. Section 09700 - Wall Finishes.
I. Section 09900 - Paints and Coatings.

1.03 REFERENCES

A. ASTM Standard(s):

1. E 84, Standard Test Method for Surface Burning Characteristics of Building Materials.

2. C475, Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.

3. C 578. Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.

B. ULC Standard(s):

1. CAN/ULC—S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

2. CAN/ULC—S701, Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.

1.04 SYSTEM DESCRIPTION

A. Pre-manufactured interior pre-coated foam shapes consisting of: Pre-cut foam and lightweight polymer—modified, flexible cementitious coating with acrylic plaster finish.

1.05 TERMS/DEFINITIONS

Note: Adhesive attachment is standard method of attachment.

A. Adhesive: A material used to attach Interior Pre-coated Foam Shapes to substrate.

B. Interior Coating: A finish ready base material applied to face of foam shapes that is flexible, durable, and ready for Finish Coat.

C. Finish Coat: A decorative coating applied to Interior Coating, product as manufactured by others and approved by EVEREST MOULDINGS AND SPECIALTIES.

1.05 DESIGN LIMITATIONS

A. Maximum allowable substrate system deflection, normal to plane of wall: L/240.

B. Details shall conform with EVEREST MOULDINGS AND SPECIALTIES recommendations and shall be consistent with Project requirements. Consult with EVEREST MOULDINGS AND SPECIALTIES when special non-standard shapes or conditions arise.

Note: Expansion and control joints are required in system where they exist in substrate, and where system adjoins dissimilar construction. Specify sealant in appropriate Section.

C. Terminate Interior Precoated Foam Shapes System at expansion joints. Sealant shall be detailed and installed. Refer to typical details.

D. Do not apply urethane based Finish Coat to Interior Precoated Foam Shapes System.

1.07 QUALITY ASSURANCE

A. Contractor Requirements:

1. Perform work of this Section by a company that has proven experience in installing Interior Pre-coated Foam Shapes System of a similar size and nature and that is approved by the Manufacturer.

2. Provide proper equipment, workers and supervision on job site to install Interior Precoated Foam Shapes System in compliance with Contract Documents and manufacturer's specifications and recommendations.

B. Mock—up:

1. Construct one mock—up of each type of Interior Precoated Foam Shapes System in location acceptable to Owner/Consultant.

2. Arrange for Owner's/Consultant's review and acceptance, allow 48 hours after acceptance before proceeding with Work.

3. Mock—up may remain as part of Work if accepted by Owner/Consultant. Remove and dispose of mock-ups which do not from part of Work.

4. Upon acceptance, mock—up shall serve as a minimum standard of quality for the balance of the work of this Section.

1.08 SUBMITTALS

A. Submit in accordance with Section 01340.

1. Product data, including literature, specifications, product limitations, application instructions and details.
2. Samples: Submit before Project commences, 300 mm samples of each shape of Interior Pre-coated Foam Shapes to be utilized on Project. Label samples with manufacturer's identification markings.

3. Certification:
   a. Current product test data and test results indicating compliance with specified performance.
   b. Written certification of compliance with specified testing procedures and related specifications.

1.09 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver materials supplied by system manufacturer in original, unopened and undamaged packaging with legible manufacturer's identification and labels intact.

B. Store products supplied by system manufacturer in a cool, dry place protected from direct sunlight, weather and other damage. Store all Wet materials at a temperature of not less than 10 C (50 F) and with a relative humidity below 80% at all times.

C. Make available material safety data sheets (MSDS) for adhesives and joint compounds.

1.10 PROJECT

A. Environmental Conditions:

1. Install adhesive and joint compound materials at an ambient temperature of 10C (50 F) and with the relative humidity below 80% and maintain for a minimum of 12 hours before, during, and after application.

2. Provide supplemental heat for applications when temperature is less than 10C (50 F). Provide sufficient ventilation and time to ensure that materials have sufficiently cured prior to removing supplemental heat.

PART 2 — PRODUCTS

2.01 MANUFACTURERS

A. Interior Pre-coated Foam Shapes System: Manufactured by EVEREST MOULDINGS AND SPECIALTIES, 3226 Wharton Way, Mississauga ON L4X 2C1, Canada, Phone: (416) 848-4123, Fax: (416) 913-1584, info@everestmouldings.com.

B. Obtain components of Interior Pre-coated Foam Shapes System from system manufacturer or its recognized supplier.

2.02 MATERIALS — INTERIOR PRE-COATED FOAM SHAPE SYSTEM

A. Adhesive: High strength setting type joint compound With 45 and 90 minute setting times and conforming to ASTM C475.

B. Insulation core: Expanded Polystyrene (EPS) conforming to physical properties of ASTM C 578, Type 2 or CAN/ULC—S70l, Type 2, 32 kg/m3 (2 lb/cu ft) density.

C. EVEREST MOULDINGS INTERIOR PLASTER COATING: lightweight polymer—modified coating with acrylic plaster finish pressure applied by extrusion process in a climate controlled factory, 3.125 mm (0.125”) minimum thickness.

D. Joint Compound: All purpose joint compound conforming to ASTM C475.

2.03 MATERIALS — INTERIOR PRE-COATED FOAM SHAPE SYSTEM

A. Adhesive: Same as above.

B. Insulation core: Same as above.

C. EVEREST MOULDINGS INTERIOR PLASTER COATING: lightweight polymer—modified coating pressure applied by extrusion process in a climate controlled factory, 3.125 mm (0.125") minimum thickness.

E. Joint Compound: All purpose joint compound confonning to ASTM C475.

2.04 MATERIALS — OTHER MANUFACTURERS

A. Finish Coat: type, color, and texture as selected by Owner/Consultant and approved for use over Interior Pre-coated Foam Shapes by EVEREST MOULDINGS AND SPECIALTIES.

PART 3 — EXECUTION

3.01 SUBSTRATE

A. Substrate shall be of a type approved by of Interior Pre-coated Foam Shapes System manufacturer.

B. Verify substrate surfaces are solid, free from moisture, dust, projections, and any other foreign matter detrimental to performance and compatible with adhesive.

C. Substrate shall be free of planar irregularities greater than 6.4 mm (1/4 in.) in 2.4 m (8'0") and shall be sound and free of foreign substances.

D. Report unsatisfactory conditions to Contractor for correction by substrate installer before application of system.

3.02 PREPARATION

A. Adhesive and joint compound: Premixed as received from manufacturer prior to beginning application. Add clean potable water to powdered products and mix in accordance with package instructions.

3.03 APPLICATION

A. Install Interior Pre-coated Foam Shapes System smooth, seamless, plumb, true, flush, and with square, plumb, and neat corners.

B. Apply a 9.5 mm (3/8") to 12 mm (1/2") bead of adhesive to the top and bottom back surface of Interior Pre-coated Foam Shapes.

C. While adhesive is still wet, press into ceiling comer and tool excess adhesive to create a smooth joint.

D. When joining inside, outside, or butt lengths of Interior Pre-coated Foam Shapes System, apply 6 mm (1/4") joint compound to one side of adjoining piece and joint with constant pressure ensuring a void free joint. Wipe off excess joint compound, but do not wipe clean.

E. Let joint compound dry and sand smooth with a fine grit sanding sponge or scrape smooth using a Wind-Lock ornamental tool.

F. Finished joint should be smooth and ready for Finish Coat.

G. Finish Coat:

   A. Apply Finish Coat to Interior Pre-coated Foam Shapes System in accordance with Finish Coat system Manufacturer’s written instructions.

   B. Apply finish coat over EVEREST MOULDINGS Interior Coating in accordance with finish manufacturer’s current published instructions.

   C. Specify texture and color of finish in accordance with approved sample. All mechanics applying and texturing finish shall utilize same tools, equipment and techniques to achieve uniformity.

END OF SECTION