



SPECIFICATION
Section 09670

DUOCHEM 9600
STATIC DISSIPATIVE EPOXY COATING SYSTEM

Note to Specifiers

The purpose of this outline specification document is to assist the specifier to compile a specification for the proper use of Duochem 9600 as a coating. This document has been prepared to be part of a complete project specification and is not intended to be used as a project document by itself.

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS: Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 - General Requirements, apply to work of this section.
- 1.02 WORK INCLUDED: Application of a complete epoxy coating system, including surface preparation, primer, grounding system and finish coat.
- 1.03 RELATED WORK SPECIFIED IN OTHER SECTIONS:
- | | | |
|----|----------------|---------------|
| A: | Concrete work: | Section 03300 |
| B: | Joint sealant: | Section 07900 |
- 1.04 QUALITY ASSURANCE:
- A: **Only experienced applicators authorized by the coating manufacturer are to be used to install this coating system.**
- B: Prior to commencement of any work, a minimum 2 m² (20 ft²) mock-up will be installed on site for each system. This will be viewed by all parties, and only when accepted will work of same system be allowed to proceed. The mock-up will serve as a benchmark for the installation of each system for the entire project.
- 1.05 SUBMITTALS: Comply with Section 01300.
- A: Product Data: Submit manufacturer's technical data, installation instructions, and general recommendations.
- B: Samples: Submit color samples on rigid backing for selection and approval of owner's representative, architect or engineer.

1.06 PRODUCT DELIVERY AND STORAGE:

- A: Deliver materials to job site in sealed, undamaged containers clearly labelled with name and batch number.
- B: Store materials to comply with manufacturer's directions to prevent deterioration due to moisture, heat, cold, direct sunlight or any other causes.

1.07 JOB CONDITIONS:

- A: Provide temporary traffic barriers and supervision necessary to control traffic during coating operations.
- B: Ensure that storage areas for coating materials and floor surfaces are above 13°C (55°F) and below 29°C (85°F) for a minimum of 48 hours prior to installation.
- C: Commencement of installation implies acceptance of the concrete surface as suitable to receive the coating system.
- D: Apply coating materials in strict accordance to all safety and weather conditions as required by manufacturer of coating materials or as required by Municipal, Provincial and Federal rules and regulations.

PART 2 - PRODUCTS

- 2.01 GENERAL: All components and products of the coating system shall be manufactured and supplied by a single manufacturer.
- 2.02 MANUFACTURER: DUOCHEM INC., 1250 Graham Bell, Boucherville, Quebec J4B 6H5, Telephone 450-655-6421 or 1 888 577-6421. Branch Offices: Dartmouth, N.S., 902-468-7878 or 1 877 829-9769; Toronto, Ont., 416-630-2736 or 1 800 268-7936; Western Ontario, 519-245-8151; Vancouver, B.C., 604-521-0572, Western Canada 1 877 455-9595.
- 2.03 DISSIPATIVE EPOXY FLOOR COATING: Duochem 9600 floor coating system, consisting of primer, grounding system and finish coat. Available in standard colors.
 - A: Primer: Duochem 9400 or Duochem 9005 (consult Duochem)
 - B: Grounding System: Scotch Brand Electrical Tape 1181 or 1182 from 3 M
 - C: Finish Coat: Duochem 9600
 - D: Anti-slip aggregate: Clean graded aggregate (optional)

Note to Specifiers

Duochem 9600 can be installed with a medium anti-slip texture.

PART 3 - EXECUTION

- 3.01 INSPECTION: Examine surfaces and conditions under which flooring is to be applied. Moisture content of surfaces and building air temperatures must be within limits recommended by the flooring manufacturer. Do not start work until unsatisfactory conditions have been corrected. Application of materials indicates acceptance of surfaces.

- 3.01 A: Surfaces shall be free of membrane curing compounds, laitance, dust, dirt, grease, oil and other contaminants that may affect proper adhesion of the coating.
- B: Surfaces to receive coating shall be equivalent to a light steel trowel finish for new or patched concrete surfaces.
- C: Moisture content of the concrete shall be checked using a Delmhorst moisture meter. Moisture content shall be within the limits set by the manufacturer prior to commencing work.
- D: Do not apply coating system if ambient temperature is below 10°C (50°F) or above 32°C (90°F) or if relative humidity is above 80%.

3.02 SURFACE PREPARATION:

- A: Thoroughly clean all surfaces to receive coating by steel shotblast, sandblast, or other method approved by manufacturer.
- B: Remove projections and other conditions that may affect the installation of the coating.
- C: Protect adjacent surfaces, fixtures and equipment with drop cloths or masking as necessary to prevent damage from splatter or spillage.
- D: Repair all surface spalls and imperfections with Duochem 9400 blended with select aggregates or other patching compound approved by manufacturer.

3.03 MATERIAL PREPARATION:

Carefully prepare and mix materials used in flooring work in compliance with manufacturer's instructions.

3.04 FLOORING APPLICATION: Apply each component of system in compliance with manufacturer's directions to produce a uniform wearing surface of 1000 microns (40 mils) dry film thickness, uninterrupted except at sawn joints, or other types of joints, indicated or required.

- A: Prime Coat: Apply coating over prepared substrate with squeegee or roller at spreading rate required to produce a minimum dry film thickness of 250 microns (10 mils). Allow coating to harden at least 8 hours before applying finish coat.
- B: Apply 1 (one) 1"x12" strip Scotch Brand Electrical Tape 1181 or 1182 from 3 M per 93 m² (1,000 ft²) of floor surface. Allow for connection of embedded electrical tape to main building ground. All electrical connections to true ground by other trade.
- C: Finish Coat: Apply finish coat by squeegee or roller at spreading rate required to produce a minimum dry film thickness of 750 microns (30 mils).

3.05 JOINTS:

Fill control joints with Duropli elastomeric caulking compound manufactured by Duochem Inc. or as specified in Section 07900. Where substrate is interrupted by expansion or control joints provide electrical connection across joint with Scotch Brand Electrical Tape 1181 or 1182 from 3 M to ensure all surface area is properly grounded.

3.06 CLEANING AND PROTECTION:

- A: Clean uncured flooring materials from surfaces with Duochem 201 Solvent. Removal of cured materials requires scraping, chipping or grinding.
- B: Protect flooring materials from wear and damage during construction operations.
- C: Clean flooring just prior to final acceptance using materials and procedures recommended by flooring manufacturer.

END OF SECTION
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