



SPECIFICATION
Section 09770

**COR-PRO 463 F.R. (FIBER REINFORCED)
EPOXY LINING 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 COR-PRO 463 F.R. Epoxy Lining System. 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.

COR-PRO 463 may be installed without fiberglass reinforcement. Refer to COR-PRO 463 data sheet if this is required for your project.

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 reinforced epoxy coating, complete, and including surface preparation, and finish coats.
- 1.03 QUALITY ASSURANCE:
- A: **Applicator of coating system shall have a minimum of three years recent experience in applying similar coatings and shall be an "Authorized Applicator" recognized in writing by the manufacturer of the coating materials.**
 - 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.
 - C: During job mock-up and initial period of installation, manufacturer of coating system will provide a trained employee to insure proper use and installation of product. Periodic site visits will also be made during installation to verify continued proper installation.
- 1.04 SUBMITTALS: Comply with Section 01300.
- A: Samples: Submit two samples representative of coating system applied to suitable rigid substrate.

- 1.04 B: Manufacturer's Literature: Submit two copies of manufacturer's literature, specifications and application instructions for all products provided.
- C: Attestation: Submit a minimum of three projects of similar nature which have been installed during the last five years, including name, locations and installation date.
- D: Applicator Certificate: Submit "Authorized Applicator" certificate issued to system applicator by coating material manufacturer.
- 1.05 DELIVERY AND STORAGE:
- A: Deliver materials to job site in sealed, undamaged containers clearly labelled with name and manufacturing date or batch number.
- B: Store materials according to manufacturer's directions to prevent deterioration due to moisture, heat, cold, direct sunlight or any other causes.
- 1.06 JOB CONDITIONS:
- A: Provide temporary barriers and supervision necessary to control traffic during coating operations.
- B: Ensure that surfaces to receive coating products 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 surface as suitable to receive the wall coating. Contractor must be notified in writing of any deficiency of wall surface or if the surface is unacceptable.
- D: Apply coating materials in strict accordance to the manufacturer of coating materials printed application procedures.
- E: Establish appropriate health, safety and environmental protection practices, in consultation with appropriate regulatory authorities, if necessary, to achieve compliance with any existing applicable regulatory requirements prior to use of products.

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., 416-665-5885 or 1 888 405-7222; Western Ontario, 519-245-8151; Vancouver, B.C., 604-521-0572, Western Canada 1 877 455-9595.
- 2.03 EPOXY LINING SYSTEM: COR-PRO 463, two component, 80% solids content epoxy coating, consisting of primer, reinforcing fabric and topcoats. Available in standard colors.
- A: Primer: COR-PRO 462
- B: Fiberglass reinforcement: 6.5 oz. Fiberglass cloth
- C: Finish Coats: COR-PRO 463

Note to Specifiers

Concrete block or irregular surfaces require a leveling coat of Duroplast 401 cementitious surfacer or Duochem 6010 prior to application of COR-PRO 463 F.R.

PART 3 - EXECUTION

3.01 INSPECTION:

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

3.02 SURFACE PREPARATION:

A: Clean surfaces free of laitance, dirt, dust, grease, oil and other foreign material.

B: For pour-in-place concrete, abrasive brush blast surface to remove laitance.

3.03 MATERIAL PREPARATION: Carefully prepare and mix materials used in compliance with manufacturer's directions. Proceed with application immediately after mixing.

3.04 APPLICATION: Apply each component of wall coating system in compliance with manufacturer's directions to produce a pinhole free surface. Total dry film thickness of complete to be 875 microns (35 mils) uninterrupted except at expansion joints.

A: Fill all interior corners with Duochem Duropli Vertical caulking compound and tool to one-inch radius. Allow to cure minimum 12 hours prior to proceeding with subsequent coats.

B: Apply a coat of COR-PRO 463 at the approximate rate of 4 m²/l (165 ft²/US gallon). Before it hardens, press a woven 6.5 oz. fiberglass cloth into coating and scrape with a rubber squeegee or putty knife to remove wrinkles and excess COR-PRO 463. Overlap joints in cloth minimum 25 mm (1") and cut with a sharp instrument around openings and at floor and ceiling. When dry, sand rough areas of the surface with mechanical sanders and fill any voids with COR-PRO 463. Apply a second coat of COR-PRO 463 at a rate of approximately 4 m²/l (165 ft²/US gallon). When dry, sand and apply a third coat. If the second or third coat are applied after more than 48 hours, sand surface prior to coating.

3.05 CLEANING AND PROTECTION:

A: Protect work, including work of other trades, against damage.

B: Clean uncured coating-spattered surfaces with Duochem 201 Solvent. Cured coating requires scraping to remove.

C: Remove discarded materials, rubbish, cans and rags from site.

END OF SECTION
09770