



SPECIFICATION
Section 07180

**RESOFLEX
BALCONY WATERPROOFING 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 Resoflex Balcony Waterproofing 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.

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 coating system, complete, including surface preparation 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: **Applicator of coating system shall have a minimum of three years recent experience in applying coatings to concrete surfaces 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.

- 1.05 SUBMITTALS: Comply with Section 01300.
- A: Samples: Submit two samples representative of coating system applied to suitable rigid substrate.
 - 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 five 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.
 - E: Guarantee Requirements: Upon completion and acceptance of the work, submit an executed copy of the guarantee.
- 1.06 PRODUCT DELIVERY AND STORAGE:
- A: Deliver materials to job site in sealed, undamaged containers clearly labeled 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.
- 1.07 JOB CONDITIONS:
- A: Provide temporary traffic 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 concrete surface as suitable to receive the traffic coating. Contractor must be notified in writing of any deficiency of the concrete 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., 416-630-2736 or 1 800 268-7936; Western Ontario, 519-245-8151; Vancouver, B.C., 604-521-0572, Western Canada 1 877 455-9595.

- 2.03 WATERPROOF COATING: Waterproof coating shall consist of a flexible, liquid applied, UV resistant elastomeric coating. Available in standard grey or tan colours.
- A: Primer: Duochem 6030. Only required for very porous or damp surfaces
- B: Waterproof Coating: Resoflex, a two component, flexible polyurethane

PART 3 - EXECUTION

- 3.01 INSPECTION: Examine surfaces and conditions under which coating system 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.
- A: Surfaces shall be free of curing compound membrane, 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 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 green section of concrete scale prior to commencing work
- D: Do not apply deck coating system if ambient temperature and surface temperature is below 4°C (41°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 in accordance to the manufacturer's instructions.
- B: Remove projections and other conditions that may affect the installation of the coating.
- C: Rout or sawcut all cracks exceeding 1.5 mm (1/16") in width and fill with Duropli sealant. Use materials and methods recommended by the coating manufacturer.
- D: Protect adjacent surfaces, fixtures and equipment with drop cloths or masking as necessary to prevent damage during surface preparation.
- E: Repair all surface spalls and imperfections with Duochem 390 blended with selected aggregates or other patching compound approved by manufacturer.
- 3.03 MATERIAL PREPARATION: Carefully prepare and mix materials used in coating work in compliance to manufacturer's instructions.

3.04 FLASHINGS:

- A: Provide fluid applied integral flashings at all locations where a horizontal surface abuts a vertical surface and at all projections. Resoflex shall be applied over the prepared surfaces at the minimal rate of 600 microns (24 mils) thick and shall extend 10 cm (4") minimum on vertical surfaces.
- B: At projections through concrete slab such as post, pipes, railings, vents, and similar locations of potential movement, install a 1.5 cm (1/2") bead of Duropli sealant, tool form a cove and allow to cure prior to coating.

3.05 DETAIL WORK:

Apply Duochem 390 membrane at a minimum thickness of 500 microns (20 mils) for a distance of 5 cm (2") each side of all unfilled visible cracks up to 0.15 cm (1/16") wide, and filled cracks in concrete surface, control joints and construction joints to receive coating. Allow to dry (8-16 hours) before proceeding to the application of the waterproofing membrane.

3.06 WATERPROOF COATING:

Apply Resoflex at a minimum thickness of 600 microns (24 mils). Spread coating evenly over flashing and detailed work.

3.07 CLEANING:

- A: Remove remaining materials and debris from site and dispose of according to rules and regulations.
- B: Uncured Resoflex can be cleaned with Duochem 208 or 205 Solvent. Cured materials are unaffected by solvents or any cleaning chemicals; grinding, chipping or scraping required for removal.

END OF SECTION

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