

MASTERSPEC

ECOSIL

Section 07180 – Water Repellent

1. PART 1 GENERAL

1. SECTION INCLUDES

- A. Water repelling, penetrating coating applied to exterior and interior masonry, concrete, and cement plaster surfaces.

1. QUALITY ASSURANCE

- A. Perform work in accordance with manufacturer's printed instructions.

Maintain one copy of document on site.

1. QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacture of water repellent coatings with five years minimum experience.

Applicator: Certified and approved by manufacturer.

1. SUBMITTALS

- A. Submit product data information.

Include details of product description, tests performed, limitations to coating, cautionary procedures required during application, and chemical properties

Submit manufacturer's installation instructions.

Submit manufacturer's certificate that products meet or exceed specified requirements and that their application was according to manufacturer's recommendation.

Submit manufacturer's certificate that products supplied comply with local regulations controlling the use of volatile organic compounds (VOC).

Submit manufacturer's test and inspection reports.

1. PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference one week prior to commencing work of this Section.

Review installation procedures and coordination required with related work.

- 1. FIELD SAMPLE

- A. Apply coating to 24 sq ft area of each surface to be waterproofed where directed by Architect.

- 1. WARRANTY

- A. Provide manufacturer's 5-year warranty for materials.

- 1. REGULATORY REQUIREMENTS

- A. Comply with all current federal, state, and local volatile organic compound (VOC) regulations.

- 1. ENVIRONMENTAL REQUIREMENTS

- A. Do not apply coating when ambient temperature is lower than 40 degrees F or higher than 100 degrees F.

- 1. PART 2 PRODUCTS

- 1. ACCEPTABLE MANUFACTURERS

- A. EPRO Services, Inc. 800-882-1896.

- 1. MATERIALS

TYPICAL UNCURED PROPERTIES		
Specific Gravity		1
PH		8-Jul
Appearance		Milky White
Solids By Volume		
Regular		6-8%
Extra Strength		12-14%
Super		18-20%
Concentrate		30-32%
TYPICAL CURED PROPERTIES		
Initial Cure		1.5 Hours
Final Cure		24-48 Hours (Substrate/Weather)
Elongation	ASTM D 412	325%
Water Vapor Transmission	ASTM E 96	.017 grains/hr./cu. ft.
Perm Rate		30
UV Resistance		Excellent
Wind Driven Rain	ASTM E 514-70	Passed

A. ECOSIL, a water-based polydimethyl siloxane and polyamino siloxane blend with the following specifications.

1. PART 3 EXECUTION

1. INSPECTION

A. Verify joint sealants are installed and cured.

Verify surfaces to be coated are dry, clean, and free of efflorescence, oil, or other matter before application of coating.

Beginning of installation means acceptance of substrate.

1. PREPARATION

A. Remove loose particles and foreign matter.

Remove oil or foreign substance with a cleaner, which will not affect coating.

Protect adjacent surfaces not scheduled to receive coating.

If applied on unscheduled surfaces, remove immediately, by approved method.

1. FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed.

Manufacturer of water repellent coating shall provide the inspection services as required.

- 1. APPLICATION

- A. Delay work until substrate is cured a minimum of 48 hours.

Apply coating in one liberal spray application from the top down, chasing vertical and horizontal spray overlaps with a roller.

- 1. PROTECTION AND CLEANING

- A. Protect adjacent surfaces from damages and stains.

Clean materials from surfaces where inadvertently applied.
Protect finished installation.