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PART 1 - GENERAL

1.1 Related Sections .1 Section 03 30 10 Concrete Repair and Patching

PART 2 - PRODUCTS

2.1 General .1 Use products from single manufacturer.

.2 Coating system to be compatible with patching materials used for concrete repairs.

2.2 Materials

.1 Cementitious Coating System:

.1 Protective coating system for repaired concrete culvert interior surfaces to be a cement-based polymer modified waterproof coating system.

.2 Coating system to be applied in 2 coats for a minimum total dry film thickness (dft) of 16 to 20 mils, (406 to 508 microns). Texture - smooth.

.3 Acceptable coating systems:

.1 Planiseal 88 by MAPEI.

.2 Tamoseal by EUCLID.

.3 Thoroseal by BASF.

.4 Alternate products as approved by addendum in accordance with Instructions to Tenderers.

.4 Color: Gray.

PART 3 - EXECUTION

3.1 General .1 Prepare substrate, remove any deleterious materials and pressure wash prior to applying product.

.2 Application shall adhere to the installation instructions of each product.

.3 Finish shall be uniform in both color and texture.

.4 Ensure application procedure remains constant through installation.

.5 Specified approved coating shall be installed in accordance with applicable data information with strict adherence to the required substrate cleanliness and texture for proper bonding.

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- .6 Mixed material shall not be used if left uninstalled beyond usage time limits. Re-tempering is strictly forbidden.
- .7 Mixing procedures and mix components proportions will be recorded and used as a standard for subsequent batch to ensure color uniformity.
- .8 No outdated materials will be used.

### 3.2 Surface Preparation

- .1 Surfaces of concrete repaired areas shall be fully cured and free of all bond-inhibiting contaminants.
- .2 All newly patched surfaces and existing surfaces to be prepared to a medium grit sand paper texture, in accordance with CR1 guide 03732 SP3.
- .3 Prepare all surfaces to above criteria mechanically by blast cleaning or high pressure water jetting.
- .4 Fill and level all bug holes, cracks, and surface irregularities with coating system manufacturer's recommended repair mortars as approved by Departmental Representative.
- .5 Use substrate primer to optimize adhesion of coating system.
- .6 Mask all adjacent metal on other surfaces to prevent contact by primer and coating system.

### 3.3 Applications

- .1 Unless otherwise approved, application of coating system to be by roller. Use brush only for small inaccessible areas such as for touch-ups.
- .2 Confirm by testing that moisture content of substrate surface is below 5%.
- .3 Apply in strict accordance with coating system manufacturer's written instruction and field direction of manufacturer's technical representative.
- .4 Do not apply if rain is expected within 24 hours of application.

### 3.4 Finishes

- .1 Finish to have uniform color and texture.

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Dickson Brook  
Culvert Repairs  
Parks Canada  
Fundy National Park, NB  
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Cementitious Coating

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3.5 Mock-up .1 Coordinate mock-up of cementitious coating and meet requirements as stipulated in Section 03 30 10, Concrete Patching and Repair.

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**END OF SECTION**

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