
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- .8 No outdated materials will be used.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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<u>3.5 Mock-up</u>	.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
