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| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | November 13, 2009 | Modified ‘Related Section’ |
| 3 | June 6, 2012 | Addition of References and Replacement Parts sections to this page. |
| 4 | July 6, 2012 | Change tab settings in page 1-4. |
| 5 | April 23, 2015 | General Formatting |
| 6 | April 7, 2016 | Phase 1 review (AV) |
| 7 | November 29, 2016 | Updated based on Legal’s comments (eDOCs #6396344) |
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NOTE:

This is a CONTROLLED Document. Any documents appearing in paper form are not controlled and should be checked against the on-line file version prior to use.

**Notice:** This Document hardcopy must be used for reference purpose only.

**The on-line copy is the current version of the document.**

# GEneral

## Related Sections

### *[Under "Related Sections", identify other Sections that are related to, and/or dependent on, the work results or information specified elsewhere. The list should be limited to Sections with specific information that the reader might expect to find in this Section, but is specified elsewhere. For example, if hardware for aluminum entrances is specified in the aluminum entrance Section, a cross-reference would be appropriate in the finish hardware Section. The purpose of this cross-referencing is for information only, to aid in finding those other requirements—not to define the scope of the Section.*

### *Cross-referencing here may also be used to coordinate assemblies or systems whose components may span multiple Sections and which must meet certain performance requirements as an assembly or system.*

### *Contractor is responsible for coordination of the Work.*

### *This Section is to be completed/updated during the design development by the Consultant. If it is not applicable to the section for the specific project it may be deleted.]*

### *[List Sections specifying installation of products supplied but not installed under this Section and indicate specific items.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Execution requirements for ...[item]... specified under this Section.

### *[List Sections specifying products installed but not supplied under this Section and indicate specific items.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Product requirements for ...[item]... for installation under this Section.

### *[List Sections specifying related requirements.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: [Optional short phrase indicating relationship].

#### Section 03300 – Cast in Place Concrete.

#### Section 07900 – Joint Sealers.

#### Section 09900 – Painting and Protective Coatings.

## Submittals

### Submit two 300 mm x 300 mm samples of traffic topping system(s) on cement board showing colour, texture and finish.

### Submit two copies of manufacturer's installation instructions.

## Quality Assurance

### The Contractor shall ensure that its forces or the Subcontractor that it uses to perform the Work of this Section will have a minimum of five (5) years proven experience in this type of work.

## Warranty

### Submit a [two-year] warranty for work of this Section against defects in materials and workmanship.

## Measurement and Payment

*[Choose one of the following payment language provisions that best suits the individual project.*

*If this Section is not specifically referenced by an item in the Bid Form, please use the following language:*

### The work of this Section will not be measured separately for payment. All costs associated with the work of this Section shall be included in the Contract Price.

*OR If this Section is specifically referenced in the Bid Form, use the following language and identify the relevant item in the Bid Form:*

### All costs associated with the work of this Section shall be included in the price(s) for Item No(s). \_\_\_ in the Bid Form.

*If the work of this Section is to be measured and paid for by several different methods, please amend the standard wording given above to reflect the different methods of measurement and payment.*]

# PRODUCTS

## Materials

#### Acceptable Materials and Manufacturers: Traffic topping: Polyurethane coating system consisting of the following:

#### Tremco Inc., Vulkem

##### Vulkem 350/450 elastic membrane (350 for horizontal surfaces) (450 for sloping and vertical surfaces)

##### Vulkem 345 sand-filled two-part polyurethane coat, colour: **[    ].**

##### Vulkem 346 polyurethane/epoxy seal coat, colour: **[    ].**

##### Vulkem 45/116 one-component polyurethane sealant, colour: **[    ].**

##### **Approved Equivalent**

#### Joint backing as recommended by manufacturer of topping system

#### Cleaning material as recommended by manufacturer of topping system

# EXECUTION

## Examination

### Quality of Substrate: Minimum 28 days old concrete, sound, clean with expansion joints sharply formed.

### Examine substrates to receive traffic topping and report unacceptable substrate conditions.

### Commence application after unsatisfactory conditions are corrected.

## Preparation

### Rout out cracks and construction joints and fill with sealant.

### Create cove with sealant fillet at juncture of horizontal and vertical surfaces and at inside corners.

## Application

### Apply topping system in accordance with the manufacturer's printed instructions to a uniform appearance.

### On outside and inside corners apply additional coat of elastic membrane 150 mm wide minimum or as required.

### Apply topping in following thickness:

For vehicular traffic on ***[Consultant to amend as required]***

|  |  |
| --- | --- |
| 1 coat Vulkem 350/450 | 0.750 mm |
| 2 coats Vulkem 345 at 0.75 mm | 1.500 mm |
| 1 coat Vulkem 346 | 0.075 mm |
| Total | 2.325 mm |

For foot traffic on **[    ]**

|  |  |
| --- | --- |
| 1 coat Vulkem 350/450 | 0.750 mm |
| 1 coat Vulkem 345 | 0.750 mm |
| 1 coat Vulkem 346 | 0.075 mm |
| Total | 1.575 mm |

### Extend topping vertically down basement walls minimum 150 mm below grade. Terminate in reglet and seal with sealant where indicated.

### Extend topping vertically up the height of curb and terminate as detailed.

## Installation - Expansion Joints

### Seal expansion joints in surfaces covered with traffic topping.

### Clean out joint and fill space deeper than 13 mm with joint backing material packed tightly in place to within 10 mm of finished surface. Fill remaining space to within 1.5 mm of surface with sealant.

## Installation at Penetrations

### Materials

#### General: Seal system by:

##### Mameco of Canada Ltd.

##### Approved Equivalent

#### Membrane base coat:

##### Vulkem 350

##### Approved Equivalent

#### Membrane:

##### Vulkem 350

##### Approved Equivalent.

#### Finish Coat:

##### Vulkem 346

##### Approved Eqivalent.

#### Rubber sheet: 1.52 mm thick min. butyl or neoprene sheet, compatible with membrane system and approved by membrane manufacturer.

#### Sealant:

##### Vulkem 116

##### Approved Equivalent.

#### Joint backing: Closed cell foam rod compatible with sealant, 25 percent oversized.

### Execution

#### Clean existing membrane and surfaces scheduled to receive seal system to manufacturer's acceptance.

#### Pack around penetration using joint backing and apply sealant. Tool sealant in accordance with the manufacturer’s instructions.

#### Apply 0.76 mm thick membrane base coat 150 mm onto existing membrane and 150 mm up onto penetration.

#### Set rubber sheet into uncured base coat to cover base coat.

#### Apply 1.52 mm thick membrane over rubber sheet and apply membrane 50 mm beyond extent of rubber sheet.

#### Apply 0.18 mm thick finish coat over entire seal system.

#### Protect seal system with protection board.

**END OF SECTION**