

Revision Date: 07/29/2021

1. **Design Criteria:**

- a. This section refers to exterior membrane coatings for pedestrian areas and vehicle parking areas. Penetrating concrete sealers are not included here. Epoxy flooring is included in the resinous flooring section.
- b. Temperature limitations during installation shall be considered during specification of traffic coatings
- c. The use of low or no-VOC products is preferred
 - i. Low or no-VOC products are not inherently odor-free.
- d. When odors are expected during installation, the contractor shall notify the UVM project manager as soon as possible but not later than 7 days in advance, so UVM can protect air intake systems of nearby buildings to avoid distribution of the odors throughout the interiors of those buildings, or so that work can be scheduled to minimize od-

Revision Date: 07/29/2021

2. References

- a. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- b. ASTM E96 Standard Test Method for Water Vapor Transmission of Materials
- c. ASTM F710 Standard Practice for preparing Concrete Floors to Receive Resilient Flooring

3. Required Submittals:

- a. Product Data: For each type of product, including installation instructions and product characteristics and limitations.
- b. Samples for Verification
- c. Maintenance Data

4. Products, Materials & Equipment:

- a. All layers of specified traffic coatings and accessory materials shall be compatible with each other and substrates coatings are applied to.
- b. Manufacturers: The following manufacturers will be reviewed with the UVM project manager by the design consultant for acceptable inclusion in the project.
 - i. Crossfield Products Corp.; Dex-O-Tex Flex Shield.
 - ii. Advanced Polymer Technology Corporation.
 - iii. BASF Construction Chemicals, LLC - Building Systems.
 - iv. Euclid Chemical Company (The); an RPM company.
 - v. Key Resin Company.
 - vi. Neogard; Division of Jones-Blair.
 - vii. Pacific Polymers International, Inc.
 - viii. Sherwin-Williams Company (The).
 - ix. Tremco Incorporated; an RPM company.
- c. Pedestrian and Vehicular coatings shall be resistant to petroleum products as campus pedestrian paths will receive vehicular traffic.
- d. Pedestrian and Vehicular coatings shall be resistant to de-icing chemicals (particularly calcium chloride)
- e. Traffic coatings shall have the ability to stretch without tearing or loss of adhesion to substrates to accommodate movement and cracking of substrates.
- f. Do not use reinforcement in coatings intended to expand and contract with substrates.

Revision Date: 07/29/2021

- g. Coatings applied to existing slabs-on-grade should be vapor permeable to avoid trapping moisture and salt in the slab.

5. **Installation, Fabrication, and Construction:**

4

Revision Date: 07/29/2021

3. Surface crazing or spalling.
 4. Intrusion of water, oils, gasoline, grease, salt, deicer chemicals, or acids into deck substrate
- b. Warranty periods vary with different types of coatings. Consult with the UVM project manager to determine project criteria influencing the desired warranty period.