

## Vulkem Vehicular Traffic Deck Coating System

### Recommended Maintenance Procedures

Vulkem 350NF/950NF/951NF

Vulkem 350NF/345/346

Vulkem 360NF/950NF/950NF

Vulkem 360NF/950NF/951NF

Vulkem 360NF/345/346

#### GENERAL

- A. Maintenance of a semi-annual program of THE VULKEM VEHICULAR TRAFFIC DECK COATING SYSTEM will assure that the coating system will continue to provide the service for which it was intended.
- B. Maintenance procedures should include:
  - a. Periodic physical inspections
  - b. Cleaning
  - c. Snow removal and ice control (where applicable)
  - d. Repairs to deck coating system and periodic replacement
  - e. Repairs to structure
  - f. Repairs to structure of topcoat

#### INSPECTIONS

- A. The deck coating system is subject to extreme abrasive conditions as well as to physical damage from general use and damage resulting from structural problems. Semi-annual inspections will provide a basis for the proper maintenance work to assure a long life expectancy of the coating system.
- B. Semi-annually – make a thorough physical inspection. Such inspections should include (but are not limited to):
  - a. Make a physical inspection to determine if there are any areas of excessive wear or physical damage to the coating.
  - b. Inspect the underside of the joints for evidence of leaks where possible.
  - c. Inspect drains or scuppers to assure there is nothing clogging or blocking them to avoid ponding water on the deck.
  - d. Inspect coating surface to determine if there are any substantial structural cracks in the substrates which have caused the coating to crack.
  - e. Inspect the areas where beams are resting on columns for evidence of stress cracking or excessive movement.
  - f. Inspect the entire structure from the underside for cracks which show evidence of a difference in the plane of the materials on each side of the crack.
  - g. Inspect area at juncture of horizontal and vertical sections (parapet walls, planter walls, building walls, etc.) to determine if there has been excessive movement at this point which may have caused the coating to crack.
  - h. Inspect coating surface to determine if there are any substantial structural cracks in the substrates which have caused the coating to crack.

#### CLEANING

- A. The use and location of the deck will cause the cleaning frequency to vary. Our recommendation for cleaning is as follows:
  - a. Periodically – Sweep or vacuum deck to remove all loose debris and dirt. Truck driven vacuums are not recommended as they may gouge the deck surface.
  - b. Semi-annually – Clean deck to remove dirt, debris, oil or grease drippings, black tire marks, battery acid, antifreeze or any other typical car fluids.
    - 1. Use standard floor cleaning equipment and cleaning chemicals for floors. Requires thorough rinsing to avoid becoming slippery.
    - 2. High pressure water blast not greater than 1,000 psi at nozzle. *When using this method, maintain at least a 24" distance from the surface, using a continuous back & forth motion.*
    - 3. Natural citrus peel cleaning products, such as Karna Klean, are recommended.
  - c. Avoid the use of strong solvents, bases and acids.
  - d. Diluted Simple Green or equal product is also a recommended cleaner. Contact Tremco Technical Services prior to using any chemicals or detergents.

#### SNOW REMOVAL & ICE CONTROL

- A. It should be recognized that piled snow can significantly load the deck surface beyond its design load capacity resulting in significant structural cracks and/or more serious structural damage. Therefore, immediate removal of piled snow is recommended.
- B. The use of metal blades should be avoided at all times to prevent physical damage to the coating system.
- C. Snow blowers (with rubber blades) and snow brooms are recommended, as opposed to heavy snow removal equipment.
- D. Ice should be removed with chemical deicing materials. Acceptable deicing materials could include calcium chloride, potassium chloride or magnesium chloride. Sand, aggregate or rock salt are not acceptable for deicing.

#### REPAIRS TO DECK COATING MATERIALS

- A. All structural damage repairs should be at the direction of a structural engineer.

## REPAIRS TO DECK COATING MATERIALS

A. Minor repairs may be made by owner's maintenance people, however, it is suggested that to protect the manufacturers warranty, major repairs should be accompanied by the original approved applicator.

B. Physical damage to the coating system.

- a. Remove loose damaged coating materials to expose a sound substrate.
- b. Thoroughly clean exposed substrate and existing coating surrounding the area with a cloth which has been wet with an approved Tremco solvent.
- c. Allow an approved Tremco solvent to evaporate (1 hour at 75°F, 50% R.H.).
- d. Apply Vulkem Primer 191 or 191 Low VOC Primer in a thin film (450 sq. ft/gal.) to the cleaned, existing coating surrounding the area to be replaced.
- e. Allow the Vulkem Primer 191 or 191 Low VOC Primer to dry until tacky, 10-20 minutes, at standard temperature (75°F, 50% R.H.).
- f. Install the coating system to the original film thickness, extending each coat onto the existing coating, feather-edging the terminating edge of the coating.
- g. Add silica sand between intermediate coat and topcoat per original application recommendations to match surrounding or existing coating.
- h. Allow the repaired area to cure for 72 hours minimum before opening area to traffic, preferably five days.

C. Excessive Wear Areas

- a. Thoroughly clean entire area with a power scrubber using soft bristles. High pressure water blast can also be used not to exceed 1,000 psi at nozzle. When using this method, maintain at least a 24" distance from the surface using a continuous back & forth motion.
- b. Allow area to completely dry.
- c. Scrub area with an approved Tremco solvent but do not puddle.
- d. Allow an approved Tremco solvent to evaporate (1 hour at 75°F, 50% R.H.).
- e. Apply Vulkem Primer 191 or 191 Low VOC Primer in a thin film (450 sq. ft/gal.) to the cleaned, existing coating surrounding the area to be replaced.
- f. Allow Vulkem Primer 191 or 191 Low VOC Primer to dry until tacky, 10-20 minutes, at standard temperature (75°F, 50% R.H.).
- g. Mix and apply one coat of the original intermediate coat, broadcasting recommended aggregate throughout the area according to our published application instructions.
- h. Allow the intermediate coat (with aggregate) to cure per our published application instructions.

- i. In the event the area is subject to extreme abusive wear, repeat item g & h above to provide two coats of the intermediate coat (with aggregate).
- j. Apply Vulkem topcoat to the intermediate coat according to our published application instructions.
- k. Allow repaired area to cure for 72 hours, minimum, before opening area to traffic, preferably five days.
- l. Install line stripping where required, 24 hours after coating is installed.

## REPLACE TOPCOAT

A. Replace topcoat per the following procedure:

- a. Thoroughly clean entire area with a power scrubber using soft bristles. High pressure water blast can also be used not to exceed 1,000 psi at nozzle. When using this method, maintain at least a 24" distance from the surface using a continuous back & forth motion.
- b. Allow area to completely dry.
- c. Scrub area with an approved Tremco solvent but do not puddle.
- d. Allow an approved Tremco solvent to evaporate (one hour at 75°F, 50% R.H.).
- e. Apply Vulkem Primer 191 or 191 Low VOC Primer at a rate of 450 square feet per gallon.
- f. Allow Vulkem Primer 191 or 191 Low VOC Primer to dry until tacky, 10-20 minutes, at standard temperature (75°F, 50% R.H.).
- g. Apply topcoat in accordance to our published application instructions.
- h. Add silica sand to rejection or aggregate to match existing surrounding coating texture. Remove loose sand.
- i. Apply topcoat in accordance to our published application instructions.

Note: To assure color conformity, all containers should have the same batch numbers. Boxed pails should be used whenever possible.

- j. Install line stripping where required. Test the stripping paint to ensure it bonds to the cured Vulkem coating and/or use a colored Vulkem topcoat to complete the stripping. The Vulkem topcoat may need to be primed with Vulkem 191 Primer or 191 Low VOC Primer per the Tremco published application instructions.

