

# Vulkem Traffic Deck Coating System

## Recommended Maintenance Procedures

### 1. 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.

### 2. 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 they are working.
- d. Inspect coating surface to determine if there are any substantial structural cracks in the substrates which have caused the coating to crack.

### 3. 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.
- b. Semi-annually - Clean deck to remove dirt, debris, oil or grease drippings, black tire marks, etc. Cleaning may be by:
  1. 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.*

- c. Avoid the use of strong solvents, especially any hydrocarbon type solvents.

### 4. 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.

### 5. REPAIRS TO STRUCTURE

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

### 6. 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 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 xylene solvent.
- c. Allow solvent to evaporate (1 hour at 75°F, 50% R.H.).
- d. Apply Vulkem Primer 191 in a thin film (2 to 3 mils) to the cleaned, existing coating surrounding the area to be replaced.
- e. Allow the Vulkem Primer 191 to dry until tacky, 20 minutes minimum, two hours maximum at moderate temperatures.

- 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. Allow the repaired area to cure for 24 hours minimum before opening area to traffic.
- C. Excessive Wear Areas
  - a. Thoroughly clean entire area with steam cleaner, power scrubber or high pressure water blast.
  - b. Allow area to completely dry.
  - c. Scrub area with xylene solvent.
  - d. Allow solvent to evaporate (1 hour at 75°F, 50% R.H.).
  - e. Apply Vulkem Primer 191 at a rate of 450 square feet per gallon.
  - f. Allow Vulkem Primer 191 to dry for 20 minutes minimum and, 2 hours maximum.
  - g. Mix and apply one coat of Vulkem 345 (with aggregate) to the primed area according to our Application Directions.
  - h. Allow the Vulkem 345 (with aggregate) to cure for 24 hours.
  - i. In the event the area is subject to extreme abusive wear, repeat item g and h above to provide two coats of Vulkem 345 (with aggregate).
  - j. Apply Vulkem 346 to the fresh Vulkem 345 according to our Application Directions.
  - k. Allow repaired area to cure for 24 hours, minimum, before opening area to traffic.
  - l. Install line striping where required,

## 7. REPLACE TOPCOAT

- A. Replace topcoat per the following procedure:
  - a. Thoroughly clean entire area with steam

cleaner, power scrubber or high pressure water blast.

- b. Allow area to completely dry.
- c. Scrub area with xylene solvent.
- d. Allow solvent to evaporate (1 hour at 76°F, 50% R.H.).
- e. Apply Vulkem Primer 191 at a rate of 450 square feet per gallon.
- f. Allow Vulkem Primer 191 to dry until tacky, 20 minutes minimum, two hours maximum at moderate temperatures.
- g. Open pail of Vulkem 346 and stir to assure of no settlement in the bottom of the container and that all pigment is mixed into the liquid.

*Note: To assure of color conformity, all containers should have the same batch number. In the event all containers do not have the same batch number, the materials should be mixed together.*

- h. Apply the Vulkem 346 at a rate of 150 square feet per gallon.
- i. Immediately broadcast a 20/30 mesh, dry silica sand into the wet Vulkem 346 and backroll to evenly distribute the aggregate.  
*Amount of sand required to provide adequate non skid properties is 10 pounds of sand per 100 square feet.*
- j. Allow the Vulkem 346 (with aggregate) to cure for 24 hours.
- k. Repeat step g. above.
- l. Apply a second coat of Vulkem 346 at a rate of 200 square feet per gallon.
- m. Allow the second coat of Vulkem 346 to cure for 48 hours.
- n. Install line striping where required.

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