

Recommended Maintenance Procedures

General

- A. Maintenance of THE TREMCO PUMA EXPANSION JOINT SYSTEM (EJS) must be performed at regular intervals to assure that the expansion joint 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 Tremco PUMA EJS and periodic replacement
 - e. Repairs to structure

Inspections

- A. The Tremco PUMA EJS is subject to extreme abrasive conditions as well as to physical damage from general use and damage resulting from structural problems. Periodic inspections will provide a basis for the proper maintenance work to assure a long life expectancy of the expansion joint system.
- B. Monthly – Make a physical inspection to determine if there are any areas of excessive wear or physical damage to the Tremco PUMA EJS.
- C. Semi-annually – make a thorough physical inspection. Such inspections should include (but are not limited to):
 - a. Inspect the sealant in joints for proper adhesion. Also
 - b. determine if there is any cohesive failure or physical
 - c. damage to the sealant from traffic.
 - d. Inspect the underside of the joints for evidence of leaks where possible.
 - e. Inspect drains or scuppers to assure there is nothing clogging or blocking them to avoid ponding water on the deck.
 - f. Inspect Tremco PUMA EJS surface to determine if there are any substantial cracks in the expansion joint top coat or the joint itself.
 - g. Inspect the areas where beams are resting on columns for evidence of stress cracking or excessive movement.
 - h. 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.
 - i. 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 Tremco PUMA EJS top coat to crack.

Cleaning

- A. The use and location of the expansion joint will cause the cleaning frequency to vary. Our recommendation for cleaning is as follows:

- a. Weekly – Sweep or vacuum the area to remove all loose debris and dirt.
- b. Monthly – Thoroughly clean the Tremco PUMA EJS to remove dirt and debris. Cleaning may be by:
 - i. Power scrubbing with low suds or biodegradable detergent. Detergent shall not be of an abrasive type. When using power scrubbing equipment, the use of soft bristles is required. Thoroughly rinse to avoid becoming slippery when wet or stains from detergent residue.
 - ii. 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.
 - iii. If a stronger solvent is required, use of the Tremco PUMA Cleaner is recommended.
- c. Avoid the use of strong bases and acids or solvents.
- d. Steam cleaning is not acceptable.
- e. 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 is not an acceptable form of deicing.

Repairs to Structure

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

Repairs to Tremco PUMA EJS

- A. Minor repairs may be made with Tremco Technical or Sales Representative present, however, it is suggested that to protect the manufacturers warranty, major repairs should be accompanied by the original approved applicator..
- B. Physical damage to Tremco PUMA EJS:

Tremco® PUMA Expansion Joint System (EJS)

A Monolithic, Liquid, Polyurethane-Methacrylate (PUMA) Expansion Joint System

- a. Remove loose damaged top coat or Tremco PUMA EJ Basic material.
- b. Thoroughly clean exposed substrate and existing top coat and Tremco PUMA EJ Basic material surrounding the area with a cloth which has been wet with Tremco PUMA Cleaner.
- c. Allow the Tremco PUMA Cleaner to fully flash off prior to proceeding.
- d. Following Tremco's published application information, install the Tremco PUMA EJ Basic to the original thickness.
- e. Allow the repaired area to cure for 1 hour minimum before opening area to traffic.

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Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

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