



## INSTALLATION INSTRUCTIONS LOOP DETECTOR SEALANTS

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### READ BEFORE USING THIS PRODUCT

**GENERAL:** Crafco Loop Detector Sealants are hot-applied, single component, rubberized asphalt materials formulated as stiff, track-resistant, flexible, sealants for loop detector cuts in asphalt or concrete pavements. Loop Detector Sealants, when heated to proper installation temperature, are self-leveling and pour easily to penetrate, fill and seal loop cuts. These sealants are not fuel resistant and should not be used in fuel or oil spill areas. To use, product is removed from the package, heated in a melter and then installed in the pavement. Additional information on the products is shown on Product Data Sheets.

**MELTING AND INSTALLATION:** Loop Detector Sealants must be melted in jacketed double boiler melters with effective agitation that meet Appendix X1.1 of ASTM D6690. Do not use direct fired or air heated machines. Crafco Supershot, EZ Series 2, and EZ pour melters are recommended. Heat transfer oil should not exceed 525°F (274°C). The melter must be capable of safely heating product to 420°F (216°C). **CAUTION:** Stop agitation when adding product to prevent splashing. Product is heated to between the minimum application temperature and the maximum heating temperature shown on product containers and Product Data Sheets. These products are best applied with pressure feed wand systems, but can be applied with gravity feed pour pots.

**APPLICATION LIFE:** Application life when heated to application temperature is approximately 12 to 15 hours and may be extended by adding fresh product as quantity in the melter decreases. Product shall be agitated during installation. Product may be reheated once to application temperature, after initial heat up. When application life has been exceeded, Loop Detector Sealants will thicken, become stringy and will then gel. If this occurs, product should be immediately removed from the melter and discarded.

**PAVEMENT TEMPERATURES:** Apply product when pavement temperature exceeds 40F (4C). Lower temperatures may result in reduced adhesion due to presence of moisture or ice. If pavement temperature is lower than 40 F (4C), it may be warmed using a heat lance (Part No. 45650) that puts no direct flame on the pavement. If installing at temperatures below 40 F (4C), extreme care should be used to insure that cracks or joints are dry and free from ice and other contaminants. Product should be maintained at the maximum heating temperature. If installing at night, assure that dew is not forming on the pavement surface. Applied product should be checked by qualified personnel to assure that adhesion is adequate.

**TRAFFIC CONTROL:** Place traffic controls in accordance with Part 6, Temporary Traffic Controls, of the FHWA Manual on Uniform Traffic Control Devices (MUTCD) to protect the work site during installation.

**LOOP PREPARATION:** Loops should be sawcut to the required dimensions on the plans. Typical depths are 3-5 inches

(7.5-12.5cm) and 3/8 -1/2 inch (1-1.25 cm) wide. Following sawcutting, loops are flushed with water and blown out with clean, dry compressed air at 90 psi (620 kpa) minimum to remove any excess standing water. The loop is then allowed to dry. Detector wires are then installed at the appropriate depth.

**INSTALLATION:** Loop Detector Sealant heated to the application temperature range is installed in the loop cuts. Loop cuts are to be clean and dry prior to application. Loop Detector Sealant should be installed flush with the pavement surface in a neat manner which fills the cut.

**CLEAN OUT:** If equipment requires clean out follow manufacturer's instructions. If solvent is used, insure it does not contaminate product because dilution and flash problems may occur.

**STORAGE:** Pallets of boxed product are protected with a weather resistant covering. During storage, the protective wrap must be intact to prevent boxes from getting wet. If wet, boxes may lose strength and crush. Rips in the pallet covering should be repaired to maintain packaging integrity. Pallets should be stored on a dry level surface with good drainage. Pallets should not be stacked because crushing of bottom boxes may occur. Product properties are not affected by packaging deterioration.

**SAFETY PRECAUTIONS:** Since these sealants are heated to elevated temperatures, it is essential that operations be conducted safely. All personnel need to be aware of hazards of using hot applied materials and safety precautions. Before use, the crew should read and understand product use and safety information on the box and the product MSDS. User should check D.O.T. requirements for transportation of sealant at elevated temperatures above 212°F (100°C).

**HAZARDS ASSOCIATED WITH HOT APPLIED MATERIALS:** Skin contact with hot applied materials causes burns. Over exposure to fumes may cause respiratory tract irritation, nausea, or headaches. Appropriate precautions need to be taken to prevent contact with the hot material and to avoid inhalation of fumes for everyone in the vicinity of the work area operation. Safety precautions should include: 1. Protective clothing to prevent skin contact with hot material. 2. Care when adding product to melters to reduce splashing. 3. Careful operation and control of tools which are used to apply product. 4. Traffic and pedestrian control measures which meet or exceed MUTCD requirements to prevent access to work areas while product is still in a molten state. 5. Avoidance of material fumes. 6. Proper application configurations with a minimum amount of excesses of material. 7. Appropriate clean up of excessive applications or product spills.

**ADDITIONAL INFORMATION:** Additional information regarding these products is available by contacting your distributor or Crafco, Inc. This information includes: 1) Product Data Sheets, 2) Material Safety Data Sheets and 3) Safety Manual.