

APPLICATION INSTRUCTIONS HOT-APPLIED BITUMINOUS MARKER ADHESIVE PART NO. 34269

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READ BEFORE USING THIS PRODUCT

GENERAL: Crafco Hot-Applied Bituminous Marker Adhesive when properly used and applied, bonds markers and reflectors to both asphalt and concrete pavement surfaces. Hot-Applied Bituminous Marker Adhesive is supplied as a single component material which is easily melted and poured or pumped onto pavement surfaces. Since it is a hot melt composition, Hot-Applied Bituminous Marker Adhesive sets up on cooling and markers are ready for traffic in less than five minutes.

MELTING: Hot-Applied Bituminous Marker Adhesive can be melted in a wide variety of melting units including direct fired single walled kettles, oil jacketed kettles, or electrically heated kettles. The marker adhesive should be slightly agitated during melting using recirculation pumps or mechanical stirring. Material should be heated to between 375°F (191°C) and 425°F (216°C) for application.

PAVEMENT TEMPERATURES: To achieve best performance, pavement surface temperature during application is recommended to be at least 50° F (10° C). If markers are to be applied in cooler temperatures, the pavement surface may be gently heated with an open flame or other approved method immediately prior to marker application.

<u>PAVEMENT CLEANING PROCEDURES:</u> The pavement on which markers or reflectors are being applied should be clean, free from dust, oil, dirt, or other contaminants and dry. Air blowing, wire brushing or sandblasting may be required to adequately prepare the pavement surface.

APPLICATION OF MARKERS: Hot-Applied Bituminous Marker Adhesive should be applied to the pavement surface in a puddle approximately two-thirds to three-fourths the diameter of the marker. Markers should be applied to the adhesive immediately (within 10 seconds) to assure bonding. Markers should be pressed down to force the adhesive out beyond the perimeter of the marker and to limit the thickness of the adhesive between the pavement and the marker.

<u>APPLICATION LIFE:</u> Hot-Applied Bituminous Marker Adhesive may be reheated several times after the initial heat-up. The adhesive will not experience jelling when reheated or overheated. Overheating will not damage the adhesive, however, excessive heating may result in hardening.

<u>CLEAN OUT:</u> If the equipment being used is a type that requires clean out of pumps and plumbing, follow the manufacturer's clean out procedure instructions. If solvent is used for clean out, insure that the solvent does not contaminate the adhesive because adhesive 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 kept on the pallets to prevent boxes from getting wet. If boxes are subjected to moisture, they may lose strength and crush resulting in pallet leaning. If rips in the pallet covering occur during handling, they should be repaired to help maintain packaging integrity. Pallets should be stored on a level surface which is dry and has good drainage. Product material properties are not affected by packaging deterioration.

SAFETY AND USAGE PRECAUTIONS: Since Hot-Applied Bituminous Marker Adhesive must be heated to elevated temperatures to prepare for use, it is essential that operations be conducted in manners which assure safety of the application personnel and others. All personnel associated with use of the material need to be aware of the hazards of using hot-applied materials and safety precautions. Before use, the crew should read and understand product and safety information in on the box and all sections of the product Material Safety Data Sheet. This sheet which is supplied with each shipment, describes the characteristics of the product as well as any potential health hazards and precautions for safe handling and use. User should check D.O.T. requirements for transportation of adhesive 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. Safety precautions should include: 1. Protective clothing to prevent skin contact with hot material. 2. Care when adding blocks of product to melters to reduce splashing. 3. Careful operation and control of wands or pour pots which are used to apply product. 4. Traffic and pedestrian control measures which meet or exceed local 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 is available by contacting your distributor or Crafco, Inc. This information includes 1) Product Data Sheets, 2) Material Safety Data Sheets, 3) Safety Manual.