

**DESCRIPTION**

DEERY SAMA is a single component, hot applied, polymer-modified Stress Absorbing Mastic Adhesive. It is composed of specialty polymers and inert stabilizers blended with liquid asphalt to create a compound with excellent adhesive and waterproofing properties for use in the DEERY FlexAble Bridge Joint System. VOC=0 g/l.

**USE**

DEERY SAMA is designed for use as an adhesive interlayer between the floor and sidewall surfaces of the joint block-out and the stone filled FlexAble Bridge Joint Material. Properly installed, the SAMA material waterproofs the joint cavity and encapsulates the gap bridging plate to isolate and absorb vibration and movement between deck slabs.

**HEATING**

Material shall be heated in a hot-oil jacketed Melter capable of constant mechanical agitation and equipped with a calibrated thermometer to monitor material temperature. Material shall be heated to and maintained at the Minimum Application Temperature during use. Material can be cooled and then reheated, but only if prolonged heating is avoided. Prolonged heating at or above Minimum Application Temperature may severely damage product. If overheating damage occurs, immediately drain machine completely and refill with new material.

**APPLICATION**

DEERY SAMA, a component of the FlexAble Bridge Joint System, shall be applied after installation of backer rod and application of DEERY Surface Conditioner (DSC) have been completed and cured as specified. SAMA is pre-reacted and can be applied immediately after heating to Minimum Application Temperature. Do not apply when pavement temperature is below 40 °F (4 °C). Recommended installation sequence is as follows.

Heat SAMA in a Melter with effective agitation that meets requirements of appendix X1.1 of ASTM D6690 or heat in an approved direct fired machine. Direct fired Melters must be small (50 gallons (190L) maximum) and must be bottom fired. The SAMA can only be heated to application temperature once when using a direct fire Melter. The unit must be capable of safely heating product to 400 °F (204 °C). CAUTION: Do not agitate when adding product due to splashing. To use, adhesive is heated to between the Minimum Application Temperature and the Maximum Heating Temperature of 380 to 400 °F (193 to 204 °C). Pour heated SAMA into the expansion gap, overfilling, and spreading the adhesive on the bottom deck surface of the joint block out on each side of the expansion gap, at a depth 1/8 inch (3 mm) and to extend just beyond the edges of the bridging plates. The SAMA forms a flexible adhesive bond between the bridging plate and the bottom surface of the joint blackout.

**PROPERTIES of DEERY SAMA****When sampled and heated to maximum heating temperature in accordance with ASTM D5167****TEST**

Cone Penetration @ 0 °F (-18 °C)  
Cone Penetration @ 77 °F (25 °C)  
Ductility @ 77 °F (25 °C)  
Flow @ 140 °F (60 °C) 5 hrs.  
Tensile Adhesion %  
Softening Point  
Resilience @ 77 °F (25 °C)  
Bond 12.5 mm 100% ext. 3 cycles  
Flexibility 1/4" (6.4 mm) 90° bend  
Asphalt Compatibility  
Minimum Application Temperature  
Maximum Heating Temperature

**METHOD**

ASTM D6297 sec 9.1  
ASTM D5329  
ASTM D113  
ASTM D5329  
ASTM D5329  
ASTM D36  
ASTM D5329  
ASTM D5329  
ASTM D5329  
ASTM D5329

**SPECIFICATION**

10 units minimum  
75 units maximum  
400 mm minimum  
3 mm maximum  
700% minimum  
181 °F (83 °C) minimum  
40 – 70%  
20 °F (-7 °C)  
-10 °F (-23 °C)  
Pass  
380 °F (193 °C)\*  
400 °F (204 °C)\*

\*Temperature of product measured at pavement surface. Use highest Minimum Application Temperature in cool weather.

\*Prolonged heating at or above Minimum Application Temperature may severely damage product.

**PACKAGING**

Product is supplied in either cardboard boxes, or in meltable boxless packaging. Both package types are labeled in accordance with OSHA, GHS, and specification requirements; are sold by net weight; are interlock stacked on 48 x 40 in. (122 x 102 cm) 4-way pallets; can be stored outside; and are covered with a weather resistant pallet cover and 2 layers of UV protected stretch wrap.

- o **BOX** packaging consists of cardboard boxes containing 30 lbs. (13.6 kg) of product with 75 boxes per pallet, weighing approximately 2250 lbs. (1020 kg). Boxes contain a quick melting release film for easy removal and are taped closed, without any staples.

**PERFORMANCE**

Temperature fluctuations, site conditions, surface preparation, traffic, installation technique, material selection, shape factor and surface treatment compatibility influence the effectiveness and useful life of Pavement Preservation treatments. Consider and monitor each element for optimum results. Purchaser and end user should determine applicability for use in their specific conditions.

**WARRANTY**

Manufacturer warrants that these products meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing or filling are beyond our control as are the use and application of the products; therefore, manufacturer shall not be responsible for improperly applied or misused products. Remedies against manufacturer, as agreed to by manufacturer, are limited to replacing nonconforming product or refund (full or partial) of purchase price from manufacturer. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by manufacturer, whichever is earlier. There shall be no other warranties expressed or implied. **For optimum performance, follow manufacturer recommendations for product installation.**

**FOR ADDITIONAL INFORMATION**

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