

# DEERY<sup>®</sup> BRAND FBJ-6297

PAVEMENT PRESERVATION PRODUCTS

## BINDER

**PRODUCT DATA SHEET**  
**MARCH 2011**

### BRIDGE JOINT BINDER, Part No. 86299

**DESCRIPTION** DEERY FBJ-6297 Binder exceeds the requirements of ASTM D-6297-01. The product is a modified asphaltic binder, that is field blended with appropriate aggregates to produce an asphaltic plug joint. VOC=0 g/l.

**USE** DEERY FBJ-6297 Binder, when blended with appropriate aggregate, is intended for use in either exposed concrete or asphalt overlaid decks, as a replacement for existing small movement expansion devices or as a first installation small movement joint. Per ASTM D-6297, use is limited to applications where joint width movement is not expected to exceed  $\pm 25$  mm from the installation width. The standard minimum block out dimension is 50 mm deep x 500 mm wide. Do not install in excessive skew, incline, or severe stop-and-go configurations.

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

**APPLICATION** The plug joint using DEERY FBJ-6297 Binder shall be installed in joints that have been properly constructed and/or repaired to produce vertical sidewalls and a level bottom. All joint surfaces shall be grit blasted, dry and free from dust, dirt, grease, loose materials and any other matter that will inhibit bonding. Backer rod shall be installed in the deck gap followed by a light application of a prime coat in the form of a hot-applied Stress Absorbing Mastic Adhesive (SAMA) to the bottom of the prepared surface. A suitable steel or aluminum bridging plate shall be embedded, centered in the joint, into the hot SAMA. SAMA is then troweled over the plate and onto all remaining uncoated vertical sidewalls and horizontal surfaces. The molten FBJ Binder shall be mixed with the aggregate in appropriate proportions and then placed into the joint in layers and allowed to air cool prior to placing next layer. Flood coating between layers with molten FBJ Binder should be used to totally fill voids. Final layer shall be leveled smooth with the adjacent pavement. For enhanced surface texture and optimum skid resistance, approved aggregate chips may be embedded into the finished surface of the hot asphalt plug joint material. Ready for traffic as soon as it cools. Do not apply when pavement temperature is below 40°F (4°C).

#### PROPERTIES of BINDER

##### When sampled and heated to maximum heating temperature in accordance with ASTM D5167

#### MASTIC BINDER PROPERTIES

Softening Point (R&B)  
Tensile Adhesion  
Ductility @ 77°F (25°C)  
Penetration @ 77°F (25°C), 150 G, 5 s  
Low Temperature Penetration @ 0°F (-18°C), 200 G, 60 s  
Flow, 5 h @ 140°F (60°C)  
Resiliency @ 77°F (25°C)  
Asphalt Compatibility  
Bond 3 cycles @ -7°F (20°C), 100% Elongation  
Flexibility @ -23°F (-10°C)  
Installation Temperature Range  
Safe Heating Temperature Range

#### METHOD

ASTM D36  
ASTM D5329  
ASTM D113  
ASTM D5329  
ASTM D5329  
ASTM D5329  
ASTM D5329  
ASTM D5329  
ASTM D5329  
ASTM D5329

#### SPECIFICATION

181°F (83°C) minimum  
700% minimum  
400 mm minimum  
7.5 mm maximum  
1.0 mm minimum  
3.0 mm maximum  
40-70%  
Pass  
Pass  
Pass  
380-400° F (193-204°C)\*  
400°F (204°C)\*

\* Temperature of product measured at pavement surface. Use highest Recommended Application Temperature in cool weather. Prolonged heating at or above Recommended Application Temperature may severely damage product.

**PACKAGING** Material is packaged in cardboard boxes containing a maximum of 40 lb (18.0 kg). Each box contains a quick melt liner, which is dissolved and incorporated into the melted product. Standard packaging is 30 lb (13.6 kg) per box, palletized 75 boxes per pallet with an approximate net weight of 2,250 lb (1021.0 kg). Pallets are moisture protected with a plastic wrapping and bound with a minimum of two layers of UV resistant stretch wrap.

#### FOR ADDITIONAL INFORMATION

Call: 1-800-227-4059 toll free

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**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 Crafcoc, Inc. 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 Crafcoc, Inc. whichever is earlier. There shall be no other warranties expressed or implied. **For optimum performance, follow manufacturer recommendations for product installation.**



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