

DESCRIPTION DEERY FBJ-6297 exceeds the requirements of ASTM D6297. The product is a blend of modified asphaltic binder, select aggregates and other modifiers, pre-measured and combined to create an all-in-one package of asphaltic plug joint material. The minimum aggregate content is 68% by weight. The pre-packaged product is placed in a heated mixer and dispensed directly into the primed joint block-out where it is leveled and allowed to cool. Compaction is not required. VOC = 0 g/l.

USE DEERY FBJ-6297 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 D6297, use is limited to applications where joint width movement is not expected to exceed ±25 mm from the installation width. The standard minimum blocks out dimension is 50 mm x 500 mm. Do not install in excessive skew, incline, or severe stop-and-go configurations.

HEATING The material shall be heated in a thermostatically controlled mixer that utilizes oil as a heat transfer medium and has full sweep, horizontal shaft, paddle agitation capable of gently lifting the material from the bottom of the reservoir and turning the material over and over. The agitation shall be capable of mixing and suspending materials, filled with aggregates having a specific gravity as high as 3.0. Heating with dry radiant or direct flame heat is not recommended.

APPLICATION DEERY FBJ-6297 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 material shall be placed into the joint in layers no greater than 2 inches in depth and allowed to air cool to 140 °F or below prior to placing next layer. The 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 FBJ 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)
 Cone Penetration @ 77 °F (25 °C)
 Cone Penetration @ 0 °F (-18 °C)
 Flow, 5 hrs. @ 140 °F (60 °C)
 Resiliency @ 77 °F (25 °C)
 Bond @ 20 °F (-7 °C), 100% Elongation
 Flexibility ¼" mandrel, 90° 10 sec.
 Asphalt Compatibility
 Minimum Installation Temperature
 Maximum Heating Temperature

METHOD

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

ASTM D6297 SPECIFICATION

181 °F (83 °C) minimum
 700% minimum
 400 mm minimum
 75 units maximum
 10 units minimum
 3.0 mm maximum
 40-70%
 Pass 3 cycles
 Pass @ -10 °F (-23 °C)
 Pass
 350 °F (177 °C)*
 400 °F (204 °C)*

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

*Prolonged heating at or above Maximum Heating Temperature may severely damage the product.

PROPERTIES OF MINERAL AGGREGATE

Screen Size	Percent Passing
½ inch	100
3/8 inch	80-100
No. 10	0-15
No. 16	0-3

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.
- o **Meltable** packaging consists of approximately 30 lbs. (13.6 kg) completely meltable packages that are interlocked stacked on pallets. To use, the pallet wrap is removed, and individual blocks are placed in the Melter. There are no individual cardboard boxes to open, empty, handle, or dispose of. Meltable packaging quickly melts into the product without affecting specification conformance. Meltable packaged sealant products are sold by the pallet only and individual packages are not intended for sale. For more details on meltable packaging go to <https://crafco.com/materials-documentation/>

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

