

**DESCRIPTION** DEERY 180CA is a hot applied, single component, elastically modified composition of asphalt cement, virgin synthetic polymer, recycled rubber, and other modifiers. The sealant contains no solvent, is pre-reacted and conforms to the requirements of Caltrans Standard Specifications 37-5.02 Type 3. VOC=0 g/l.

**USE** DEERY 180CA is a moderate viscosity pavement preservation sealant intended for highway, street and aviation applications for sealing longitudinal and transverse joints and random cracks in Asphalt or Concrete pavements where use of high levels of recycled material is desirable. Properly installed, DEERY 180CA is an effective barrier against damage from debris and moisture infiltration into cracks and joints within regions experiencing moderate high and low pavement temperatures.

**HEATING and APPLICATION** Sealant shall be heated in a hot-oil jacketed melter capable of constant mechanical agitation and equipped with a calibrated thermometer to monitor sealant temperature. Material shall be heated to and maintained at Recommended Application Temperature during use. Material can be cooled and then reheated, but only if prolonged heating is avoided. Prolonged heating at or above Recommended Application Temperature may severely damage product. If overheating damage occurs, immediately drain machine completely and refill with new material. DEERY 180CA is pre-reacted and can be applied immediately after heating to Recommended Application Temperature. With pavement temperature at 40°F (4°C) or higher, place material into clean, dry crack or prepared reservoir by means of a hand-held pour pot, wheeled push bander or wand applicator. Squeegee any excess sealant tight to pavement surface. Pavement may be warmed to 40°F (4°C) or higher with a Hot Air Lance. For more details on heating and application, refer to the **Installation Instructions- Hot Applied Sealant** sheet which is included with each pallet of product. Specific Gravity of DEERY 180CA sealant is 1.24.

**PROPERTIES of DEERY 180CA**

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

| <b>TEST</b>  | <b>METHOD</b>        | <b>CALTRANS 37-5.02 TYPE 3</b> |
|--|----------------------|--------------------------------|
| Softening Point  | ASTM D36             | 90°C min                       |
| Cone Penetration   | ASTM D5329           | 50 max                         |
| Resilience   | ASTM D5329           | 30-70%                         |
| Flexibility  | ASTM D3111 modified* | Pass at 0°C                    |
| Tensile Adhesion   | ASTM D5329           | 400% min                       |
| Specific Gravity   | ASTM D70             | 1.25 max                       |
| Asphalt Compatibility  | ASTM D5329           | Pass                           |
| Sieve Test (Certification non-soluble components pass #16 sieve) |                      | Pass 100%                      |
| Maximum Heating Temperature                                      | ASTM D6690           | 400°F (204°C)                  |
| Minimum Application Temperature                                  | ASTM D5167           | 380 (193°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** Product is supplied in either cardboard boxes, or in meltable, boxless PLEXI-melt 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 x102 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 approximately 30 lb. (13.6 kg) of product with 75 boxes per pallet, weighing approximately 2250 lb. (1020 kg). Boxes contain a quick melting release film for easy removal and are taped closed, without any staples.
- o **PLEXI-melt** packaging consists of 30 lb. (13.6 kg) blocks of product with 70 packages per pallet, weighing 2100 lb. (952 kg). To use, the pallet wrap is removed, and individual blocks are placed in the melter. There are no cardboard boxes or other cardboard components to open, empty, handle, or dispose of. PLEXI-melt packaging quickly melts into the product without affecting specification conformance.

**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.**

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