



# DEERY

AMERICAN CORPORATION **IS**  
Pavement Preservation Products

DATA SHEET

REVISION 3

## DEERY 101

### HOT APPLIED SEALANT

**DESCRIPTION** DEERY 101 is a low modulus, hot applied, single component, elastically modified composition of asphalt cement, virgin synthetic polymer, premium rubber, and other modifiers. The sealant contains no solvent, is pre-reacted and conforms to the requirements of **ASTM D6690 Type IV, ASTM D3405 Low Modulus, and AASHTO M301 Low Modulus**. Material is tested for low temperature performance at -20°F (-29°C) using 200% extension. Previously labeled as CMC #101.

**USE** DEERY 101 is a low viscosity pavement preservation sealant intended for highway, street and aviation applications for sealing transverse joints and random transverse cracks in Asphalt or Concrete pavements where a soft, low modulus material is desirable. Properly installed, DEERY 101 is an effective barrier against damage from debris and moisture infiltration into cracks and joints within regions experiencing moderate high and very low pavement temperatures. Deery 101 is not recommended for use in parking lots or areas frequented by foot traffic.

**HEATING** 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 the 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.

**APPLICATION** DEERY 101 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 pot, wheeled push bander or wand applicator. Squeegee any excess sealant tight to pavement surface. Excessive over-banding should be avoided. Pavement may be warmed to 40°F (4°C) or higher with a Hot Air Lance.

#### PROPERTIES OF DEERY 101

When sampled and heated to maximum heating temperature in accordance with ASTM D-5167

<u>TEST</u>	<u>METHOD</u>	<u>SPECIFICATION</u>
Cone Penetration @ 77°F (25°C)	ASTM D5329	90-150 dmm
Flow @ 140°F (60°C)	ASTM D5329	3.0 mm maximum
Bond @ -20°F (-29°C), 200% ext., 12.7 mm sample	ASTM D5329	Pass 3 cycles
Resilience @ 77°F (25°C)	ASTM D5329	60% minimum
Asphalt Compatibility	ASTM D5329	Pass
Recommended Application Temperature	ASTM D5167	380-400°F (193-204°C)*
Maximum Heating Temperature	ASTM D6690	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 sized to accommodate a maximum of 40 lb (18.0 kg). Material contained in each box is wrapped in 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 (1,021.0 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  
Email: [info@deeryamerican.com](mailto:info@deeryamerican.com)  
Web: [www.deeryamerican.com](http://www.deeryamerican.com)

**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** COMPLETE DETAILS ON REVERSE SIDE OF THIS DATA SHEET

Page 1 of 2



# DEERY

AMERICAN CORPORATION **IS**  
Pavement Preservation Products

DATA SHEET

REVISION 3

## DEERY 5078

### HOT APPLIED SEALANT

**DESCRIPTION** DEERY 5078 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 **ASTM D5078**. Previously labeled as CMC #5078.

**USE** DEERY 5078 is a moderately high 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 5078 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** 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.

**APPLICATION** DEERY 5078 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 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.

#### PROPERTIES of DEERY 5078

When sampled and heated to maximum heating temperature in accordance with ASTM D-5167:

TEST	METHOD	SPECIFICATION
Cone Penetration @ 77°F (25°C)	ASTM D5329	70 dmm maximum
Cone Penetration @ 39.2°F (4°C)	ASTM D5329	15 dmm minimum
Resilience @ 77°F (25°C)	ASTM D5329	30% minimum
Softening Point	D36	150°F (66°C) minimum
Asphalt Compatibility	ASTM D5329	Pass
Crumb Rubber Content (by weight of asphaltic components)		10-25%
Recommended Application Temperature	ASTM D5167	380-400°F (193-204°C)*
Maximum Heating Temperature	ASTM D6690	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 sized to accommodate a maximum of 40 lb (18.00kg). Material contained in each box is wrapped in 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 2250 lbs (1,202 kgs). Pallets are moisture protected with a plastic wrapping and bound with a minimum of two layers of u.v. resistant stretch wrap.

#### FOR ADDITIONAL INFORMATION

Call: 1-800-227-4059 toll free  
Email: [info@deeryamerican.com](mailto:info@deeryamerican.com)  
Web: [www.deeryamerican.com](http://www.deeryamerican.com)

**PERFORMANCE** Temperature fluxuations, 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** COMPLETE DETAILS ON REVERSE SIDE OF THIS DATA SHEET

Page 1 of 2