

Product Evaluation

Product ID: 8085-4-16

Initiation Date: August 1, 2001

Revision Date: May 9, 2006

RE: Review of Deery #101 ELT (Extreme Low Temperature) Hot-Applied, Single Component Crack and Joint Sealant

PRODUCT

The Deery #101 ELT (Extreme Low Temperature) hot-applied joint and crack sealant is manufactured by Crackfiller Manufacturing Corporation from Cheyenne, Wyoming and distributed by Elsro Construction Products, St. Albert, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Deery #101 ELT is a high performance, hot applied, single component low modulus joint and crack sealant. This product permits high elongation at cold temperatures with low stress development; it is a very soft sealant that offers excellent low temperature bonding properties.

DESCRIPTION:

The general composition of the Deery #101 ELT includes a mixture of virgin synthetic rubber or reclaimed rubber or a combination of the two with asphalt and other modifiers as required to meet specification.

POTENTIAL USAGE:

Deery #101 ELT is a low modulus pre-reacted sealant, which can be applied immediately after application temperature, is reached. Sealant is to be heated in a melter utilizing oil as a heat transfer medium. The melter shall be capable of constant agitation and equipped with a calibrated thermometer. Application of this product can be hand-held or wheeled pour pots or use of a pressure applicator.

STANDARDS:

ASTM D3405 Specification for Joint Sealants, Hot-Applied, for Concrete and Asphalt Pavement

ALBERTA INFRASTRUCTURE AND TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Infrastructure and Transportation has experience with Rubberized Crack Sealant (Hot Pour Rubberized) products but has no record of the Deery #101 ELT product used on the provincial highway system.

APPLICABLE STANDARDS:

The Alberta Infrastructure and Transportation specifications for crack sealant are as follows:

- Standard Specification for Highway Construction 3.30 Asphalt Pavement Crack Routing and Sealing.
- There are three approved products listed in the 3.30 specification.

PRODUCT COMPARISON TO STANDARD:

The Deery #101 ELT product meets the requirements of the ASTM D3405 (Modified Low Modulus Sealant) Standard Specification for Joint Sealants, Hot-Applied, for Concrete and Asphalt Pavements based on the suppliers reported characteristics. This product appears to be similar to products listed in the Alberta Infrastructure and Transportation 3.30 Specification for Asphalt Pavement Crack Routing and Sealing.

RECOMMENDATIONS:

Post Deery #101 ELT product information on the Alberta Infrastructure and Transportation Products List under Proven Products, Crack Treatment – Roads, Hot Pour, Rubberized Crack Sealant (Hot Pour Rubberized) – Proprietary, based on the information provided.

TRIAL PRODUCTS

Deery #101 ELT Hwy. 16A (Just east of Hwy. 60 on the west bound lane) applied in 2003
Hwy. 28 (N. of City limits) applied in 2003
Hwy. 16 (both lanes WBL to Hwy. 43 turnoff) applied in 2003

Joe Filice

cc New Product Evaluation Standing Committee – Terry Willis
Sal Hasham/Chuck McMillan

JF/nv