

Product Evaluation

RE: Review of MACSEAL 6690-4 Mod (formerly Beram 3060 LM Low Resiliency) Hot Applied Joint Sealant

PRODUCT

The MACSEAL 6690-4 Mod hot applied joint and crack sealant is manufactured by M^cAsphalt Industries Ltd. from Scarborough, Ontario.

VENDOR CLAIMS AND INFORMATION

CLAIMS

MACSEAL 6690-4 Mod is a high performance, hot applied, single component low resiliency joint and crack sealant. MACSEAL 6690-4 Mod permits high elongation at cold temperatures with low stress development, it is a very soft sealant that offers excellent low temperature bonding properties. Product web link:

<http://www.mcasphalt.com/en/>

DESCRIPTION

Hot applied single component joint and crack sealant for pavement maintenance and construction. Manufactured using a combination of engineering asphalt cements, polymers, synthetic rubber, recycled rubbers, select oil resins, UV. inhibitors and reinforcing mineral fillers.

POTENTIAL USAGE

MACSEAL 6690-4 Mod is used for sealing of joints and random cracks in Portland cement and asphaltic pavements in cold climate areas. MACSEAL 6690-4 Mod has been used on Highway 36 for crack sealing and for sealing routed cracks.

STANDARDS

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

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has experience with Rubberized Crack Sealant (Hot Pour Rubberized) products and has used the MACSEAL 6690-4 Mod product on the provincial highway system.

APPLICATION STANDARDS

The Alberta 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 MACSEAL 6690-4 Mod product meets the requirements of the ASTM D3405 (Modified Low Modulus Sealant) Standard Specification for Joint Sealants, Hot-Applied, for Concrete and Asphalt Pavements. This product appears to be similar to products listed in the Alberta Transportation 3.30 Specification for Asphalt Pavement Crack Routing and Sealing.

RECOMMENDATIONS

MACSEAL 6690-4 Mod should be listed as a Proven Product under Alberta Transportation Products List, Crack Treatment – Roads, Hot Pour, Rubberized Crack Sealant (Hot Pour Rubberized), - Proprietary, based on the information provided.

TRIAL PROJECTS

Highway 36:04, km 42.868 to 42.964 and km 45.420 to 45.498

Joe Filice

cc New Product Evaluation Standing Committee – Terry Willis
Chuck McMillan/Marta Juhasz