

Product Evaluation

RE: Review of TechCrete-R

PRODUCT

The TechCrete-R is manufactured Crafcro Inc. located in Chandler Arizona. It is distributed in Alberta by Lafrentz Road Marking located in Acheson, Alberta. Website: www.crafcro.com

VENDOR CLAIMS AND INFORMATION

CLAIMS

TechCrete-R is a hot-applied repair mastic sealant, aesthetically suitable in all concrete pavements (Portland cement concrete pavement and Asphalt concrete pavement), and is used in sealing wide cracks and joints, and repairing a large variety of pavement distresses. TechCrete is made of a hot applied polymer modified resin with unsurpassed adhesion, so it resists delamination and cracking. It does not shrink and remains flexible during the expansion and contraction of the adjacent concrete surface in weather extremes. It moves with the pavement as pavement expands and contracts. It has a flexibility and high compression resistance to resist the impact of heavy truck traffic and airplanes in extreme weather conditions. TechCrete with appropriate surfacing aggregate provides a high friction surface and smooth ride.

DESCRIPTION

TechCrete-R is gray in color. Pavement distresses appropriate for TechCrete include but are not limited to: Cracking (Corner breaks, Longitudinal and transverse cracking), Joint Deficiencies, Surface Defects (Map cracking and scaling, Popouts), and Miscellaneous distresses such as Blowups, Faulting of transverse joints and cracks, Lane-to-shoulder drop-off, Lane-to-shoulder separation, and Patch/Patch deterioration. It produce an impervious, load-bearing, flexible repair that withstands vehicle traffic and climatic conditions.

POTENTIAL USAGE

TechCrete-R can be used in highways, parking lots, bridge decks, airport, and other pavement surfaces.

STANDARDS

ASTM D5329: Test Methods for Sealants and Fillers, Hot-Applied, for Joints and Cracks in Asphalt Pavements and Portland Cement Concrete Pavements

ASTM D2726: Specific gravity

ASTM D2794: Resistance of Organic Coatings to the Effects of Rapid Deformation

ASTM D3111: Flexibility Determination of Hot-Melt Adhesives

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product

APPLICABLE STANDARDS

The Alberta Transportation Specification 53.10, Asphalt Pavement Pothole Patching and specification 53.4 Asphalt Pavement Crack sealing.

RECOMMENDATIONS

TechCrete-R be listed as a Potential Product under Alberta Transportation Products List, Asphalt Pavement Patching – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

Caveat:

Prior approval from Alberta Transportation's Pavement Engineering group is required before it is used in any Alberta Transportation Projects.

TRIAL PROJECTS

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