

Product Evaluation

RE: Review of Best-Kote Coating for Structural Plate Corrugated Steel Pipe (SPCSP)

PRODUCT

Best-Kote Coating is manufactured by Warner Custom Coatings for SPCSP application located in Guelph, Ontario and distributed by Atlantic Industries Limited located in Calgary, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Best-Kote Coating system provides excellent corrosion resistance against diluted acids, salts and alkalis and offers long term durability in abrasive environments. The coating system shall be completed in a three step process, plate preparation, zinc layer application coat and the copolymer layer application coat. Product Web link: <http://www.ail.ca/EN/about.cfm>

DESCRIPTION:

Best-Kote Coating system is a unique two coat system that provides two layers of protection against corrosion. The system is based on the industry standard Ethylene Acrylic Acid (EAA) used for culvert systems. The base coat zinc layer provides outstanding corrosion resistance while the top coat Copolymer provides superior resistance to impact, corrosion, abrasion and inorganic acid or alkali. The total coating system thickness is 20 mils, 10 mils per plate side.

POTENTIAL USAGE:

Best-Kote Coating system is a strong durable 20 mils total thickness barrier between the structure and the environment. This system is designed to extend the long term life of storm sewer and culvert structures. The Strata-Cat system is designed to meet and exceed the industry standard of 75 years per ASTM A742.

STANDARDS:

CSA G401 Corrugated Steel Pipe
ASTM A742 Specification for Steel Sheet, Metallic-Coated and Polymer Precoated for Corrugated Steel Pipe

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has used polymer coated CSP on several highway projects.

APPLICATION STANDARDS:

Alberta Transportation Specification 2.4 for Culverts and Specification for Bridge Construction Section 18

RECOMMENDATIONS:

Best-Kote Coating system be listed as a Proven Product under Alberta Transportation Products List, Culverts – Structural Plate Corrugated Steel Pipe – Proprietary, based on the information provided.

TRIAL PROJECTS

Bridge file 79621N (2011)

Bridge File: 76090 (2014)

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