

Product Evaluation

RE: Review of Strata-CAT Coating for Structural Plate Corrugated Steel Pipe (SPCSP)

PRODUCT

Strata-CAT Coating is manufactured by Warner Custom Coatings for SPCSP application located in Guelph, Ontario and distributed by Armtec Limited, of Langley, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Strata-CAT 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: <https://armtec.com/bridges-and-structures/>

DESCRIPTION:

Strata-CAT Coating system is a unique two coat system that provides two layers of protection against corrosion. The coating 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:

Strata-CAT 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

TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE:

Transportation and Economic Corridors has used polymer coated CSP on several highway projects.

APPLICATION STANDARDS:

Transportation and Economic Corridors 2.4 for Culverts and Specification for Bridge Construction Section 18

RECOMMENDATIONS:

Strata-CAT Coating system be listed as a Proven Product under Transportation and Economic Corridors Products List, Culverts – Structural Plate Corrugated Steel Pipe – Proprietary, based on the information provided

TRIAL PROJECTS

Hwy 63 (BF85187) 3670mm dia., 175m long

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