

**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:

[http://www.armtec.com/catalogue/Culverts\\_Drainage\\_and\\_Stormwater/PRO\\_Shield.pdf](http://www.armtec.com/catalogue/Culverts_Drainage_and_Stormwater/PRO_Shield.pdf)

**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

**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:**

Strata-CAT Coating system be listed as a Trial Product under Alberta Transportation Products List, Culverts – Structural Plate Corrugated Steel Pipe – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

**TRIAL PROJECTS**

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

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow  
Lloyd Atkin/Dave Besuyen