Composite Rebar Technologies Announces:

Long Life™ Dowels

What’s different, you ask?

CRT’s Long Life™ Dowel Bars offer the single best way to extend the life cycle of roadways that might otherwise deteriorate in less than 30 years. We see no reason CRT’s Long Life™ Dowel Bars shouldn’t exceed 100 years in typical highway pavement construction.

You know the concrete business, or you wouldn’t be reading this brochure. You know, therefore, that one of the single biggest causes of failure of concrete in highway applications is due to corrosion of the steel reinforcements typically employed in road construction.

The core of CRT’s Long Life™ Dowel Bar remains standard steel providing the necessary, and known, load transfer efficiency and shear strength. The key to its long life, however, comes from its complete encapsulation in a non-corroding durable resin and fiber sleeve. This sleeve bonds to the steel core and protects it from ever coming in contact with those rust producers: oxygen, water and de-icing chemicals!

The sleeve presents a smooth finish on its exterior, while the ends are also encapsulated, thereby preventing a contact between steel and those devastating corrosive elements. The result is performance equal to stainless at a fraction of the cost.
I. Long Life™ Dowel Specifications:
Carbon steel bars ASTM 615-60 with 1/8” thick, fully bonded, GFRP corrosion shield meeting “Section 4 (Material Specifications) of AASHTO LRFD Bridge Design Guide Specifications for GFRP Reinforced Concrete Bridge Decks and Traffic Railings (dated Nov. 2009”).

II. Properties:
• Meets DOT specs
• Load transfer efficiency (LTE) of 80% exceedes ACPA standard
• UV protected for 2 years
• No welding required
• Available in 1-1/2” and 1-1/4 “ diameters and 18” lengths plus special lengths available
• Performs as well as stainless at a fraction of the cost
• Extended life (more than 60 years) reduces over-all pavement and user cost

III. Structural Test Results for the CRT Long Life™ Dowel:
Long Life™ Dowels were tested for Load Transfer Efficiency (LTE) at the University of Pittsburgh and the results were analyzed and approved for high performance load transfer by Dr. Mark Snyder, Ph.D., P.E.

IV. Life Cycle Cost Analysis (LCCA)
Provides proof that Long Life™ Dowels are a more economical solution than epoxy dowels for concrete pavements.

Manufactured exclusively by
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