

Vertical Turbine Pumps

200.E.04 *(Effective May 1, 2024)*

PROTECTIVE COATINGS

A. Potable Water (drinking water) where no odor or contamination is allowed, such as in the food processing industry.

Type I/III Tnemec 21 (Epoxy applied at 4-6 mils per coat. Total minimum thickness is 8 mils. for **Type I** and 16 mils for **Type III**. Maximum service temperature 200° F.)

Type IV ScotchKote 134 (Fusion banded power epoxy applied at 10-12 mils, Maximum service temperature of 160° F.)

Note: These coatings are certified by **NSF International** in accordance with **ANSI/NSF Std. 61**.

B. Sea Water, Brackish Water and Brine

Type I Carboline Bitumastic 300M (Coal tar epoxy applied at 9 mils per coat, maximum 18 mils. Maximum service temperature 120° F.)

Type I/III Engard 460 (Epoxy applied at 10 mils per coat. Maximum 20 mils. Maximum service temperature 140° F.)

Type II Carbozinc 11 (Inorganic zinc at 2-3 mils per coat. DO NOT use this coating for acid or alkali solution **without** a suitable topcoat. Maximum service temperature 200° F.)

Type IV ScotchKote 134 (Fusion banded power epoxy applied at 12 mils, Maximum service temperature of 160° F.)

Note: If moderate amounts of sand are present in the pumpage, these coatings, applied at recommended maximum mils, also provide good wear protection for the interior of steel column and discharge head, and exterior surface of enclosing tubing.

Coatings for these liquids require pinhole-free surface, and smoothly ground welds, refer to factory for pricing of steel surfaces preparation.

C. River Water with Abrasives (silt and sand)

Type I Carboline Bitumastic 300M (Coal tar epoxy applied at 9 mils per coat, maximum 18 mils. Maximum service temperature 120° F.)

Type I/III Engard 460 (Epoxy applied at 10 mils per coat. Maximum thickness 20 mils. Maximum service temperature 140° F.)

Type IV ScotchKote 134 (Fusion banded power epoxy applied at 12 mils, Maximum service temperature of 160° F.)

Note: If moderate amounts of sand are present in the pumpage, these coatings, applied at recommended maximum mils, also provide good wear protection for the interior of steel column and discharge head, and exterior surface of enclosing tubing.