

## Chapter 700

### Paints - 21

**This chapter is not part of the Project specifications but is a guide for project personnel in interpreting CDOT specifications, understanding ASTM, AASHTO, and Colorado test procedures, and for completing CDOT forms.**

#### ITEM 708, PAINTS

##### General:

This specification covers ready-mixed paint. Paint shall be easily mixed. The mixed paint shall be free from agglomerates, skins, and foreign matter and shall be of suitable consistency for the method of application. Paint shall have satisfactory spreading qualities and give a smooth, continuous coating free from breaks or sags. Paint shall be able to withstand one year of storage without detrimental deterioration. In a 3/4 full, tightly closed container, paint shall show no skinning after 48 hours. Color, when designated by number, refers to Federal Standard 595B. All proportions specified herein shall be by weight.

**Structural Steel Bridge Paint** - All structural steel shall be painted as follows:

*Inorganic Zinc-Rich Polyurethane System.* The primer shall be an approved inorganic zinc-rich primer conforming to the requirements of Table I of the STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION NO. 20 (SSPC-PAINT 20) (Nov. 1, 1982). The vehicle of this primer shall be SSPC-Paint 20, Type I-C.

The primer shall be applied according to the manufacturer's recommendations with a minimum dry film thickness of 80 micrometers (3 mils).

The manufacturer shall certify in writing to the Engineer that the SSPC-SP 6 steel cleaning is compatible with the primer used.

The topcoat shall be an approved high-build polyurethane enamel with a minimum dry film thickness of 80 micrometers (3 mils). To prevent bubbling, a mist coat shall be applied before the application of the topcoat.

##### **Epoxy Coaters for Reinforcing Steel**

All steel reinforcing bars and steel dowel bars shall be painted per CP 11 Part II, Sub-Part 2: Epoxy-Coated Steel Reinforcing Bars and Epoxy-Coated Steel Dowel Bars Section 13, copied below:

#### **13. FABRICATION & JOBSITE HANDLING**

13.1 The coated bars to be fabricated by the Fabricator or field fabricated by the Contractor after application of the coating shall meet the following:

13.1.1 Contact points, such as drive rollers, shear contacts, mandrels, and backup barrels on benders shall be protected with a suitable covering to minimize damage during the fabrication process.

- 13.1.1 The Fabricator shall be responsible for repair to the coating due to damage during shipment, storage, or fabrication at the Fabricator's facility.
- 13.1.3 The Contractor shall be responsible for repair to the coating due to damage during shipment, storage, fabrication, or placement at the construction Jobsite.
- 13.2 Coating damaged due to fabrication or handling shall be repaired with patching material. The patching or repairing shall be performed following the written recommendations of the patching material Supplier.
- 13.3 Patching or repair material shall be compatible with the coating, inert in concrete, and feasible for repairs. The patching or repair material shall conform to AASHTO M 317 - Standard Specification for Epoxy-Coated Reinforcing Bars: Handling Requirements for Fabrication and Job Site