Chapter 700

Paints - 08

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 where 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 prior to application of the topcoat.

Epoxy-Coating for Steel Reinforcing Bars & Steel Dowel Bars – All steel reinforcing bars and steel dowel bars shall be painted in accordance with 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.

13.1.2 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 in accordance with 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.

ATTENTION!

All of the referenced CDOT Materials Forms, except those indicated as "*computer output*", have been revised in 2014. All of these forms state: *Previous editions are obsolete and may not be used*. The use of Materials Forms older than what is indicated in Appendix O of the FMM is not authorized!

The examples of completed forms will be revised in 2015 with the issuance of the 2016 FMM.

COLORADO DEPARTMENT OF TRANSPORTATION

FIELD REPORT FOR SAMPLE IDENTIFICATION OR MATERIALS DOCUMENTATION

Metric units ☐ yes ☒ no

Field sheet No.	Date
120227	9/9/02

Project No.	Project location
IM 0253-151	I-25, SH 7 to WCR 16

Project code (SA#)	Function	Region	Part.
11925	3200	4	P

Sample submitted: (ie.: Soil, ABC, Hydrated lime, HMA, concrete cores, steel, etc.) **Bridge Paint**

Field office phone number: 303-828-0386

Field office FAX number: 303-828-0430

Item	Class	Grading	Special provisions applicable:
708			☒ yes ☐ no

Previously used on Project No.:	Previous CDOT Form #157 F/S No.(s):	
		☐ CDOT Form #633 (sack) ☐ CDOT Form #634 (can)

- Sample Identification: Quantity & Unit of material submitted, describe tests required, precise location sample removed from (stationing), etc.
- Materials Documentation: Field inspected (describe appearance, weight/dimensions, model/serial number), COC &/or CTR provided, etc.

Bridge paint was field inspected and approved. Certificates of Compliance are on file for primer and finish coat. Meets requirement of Standard Specifitations and Special Provisions.

- Devran 224HS Primer Coat
- Devthane 378 Finish Coat

APL/QML Acceptance: APL Ref. No.	Product name:	Date checked:
APL/QML Acceptance: APL Ref. No.	Product name:	Date checked:

Preliminary	Construction	Maintenance	Emergency	Date needed
☐	☒	☐	☐	

Contractor	Supplier
Kraemer and Sons	Devoe Coatings

Sampled from (Pit, roadway, windrow, stock, etc.)	Pit name or owner

Quantity represented	Previous quantity	Total quantity to date
8,254 gal	0	8,254 gal

Sample submitted:	Shipped to:	Via	Date
☐ Yes ☒ No	☐ Central lab ☐ Region lab		9/9/02

Sampled or inspected by (Name)	(Title)	Lab phone number
James Garcia	E/PS Tech III	303-828-2644

Supervisor (Pro./Res./Matls. Engr./Maint. Supt.)	Title	Address
Corey Stewart	P.E. I	1050 Lee Hill Rd. Boulder, Co. 80302

Distribution: White copy - Staff Materials Branch
(submit white copy only if sample or information is directed to Staff Materials)
Canary copy - Region Materials Engineer
Pink copy - Resident Engineer

CDOT Form #157 9/07

Previous editions may be used until supplies are exhausted

CDOT Form #157