SPECIFICATION
Paint and Primer Coatings

This specification is for paint and primer (coating supplies) provided to NHDOT and for primer and paint coatings utilized on equipment supplied to NHDOT.

All coating supplies and coatings utilized on equipment surfaces that are normally primed and painted shall be suitable for severe exposure to road salt and abrasion. Coatings shall conform to all applicable federal and state regulations and criteria pertaining to chemical and VOC content.

Coatings containing any compound that would render the waste paint, in its dried form, a hazardous waste per NH Code of Administrative Rules Chapter Env-Hw 400 are prohibited. This includes RCRA listed metals (e.g., Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, Selenium) other than naturally occurring trace amounts associated with the coating pigments. The intent of this specification is to obtain or utilize paint such that any concentration of these metals shall not produce a TCLP test result that would fail NH DES toxicity characteristic standards and meets the latest governing regulatory criteria.

Coatings shall not contain hexavalent chromium or cadmium. For the purposes of this specification, a coating product "contains hexavalent chromium or cadmium" if hexavalent chromium or cadmium was introduced as a pigment or as an agent to impart any property or characteristic to the coating during manufacturing, distribution, or use of the applicable coating. Coatings supplied shall not contain a total VOC content greater than 2.8 lbs/gal (340 mg/l).

For bulk coating supplies, a 4-ounce sample of each paint color and the manufacture’s MSDS shall be provided with the bids for bulk paint requisitions. Each sample shall be labeled with bidder name, state bid number, submittal date, paint manufacturer name, and product identification. NHDOT will submit samples to an analytical laboratory for testing to confirm conformance with the TCLP specifications. Laboratory testing will be performed in descending order of bid prices until laboratory test results indicate compliance with these specifications. Alternatively, vendors may provide laboratory test results, completed by an EPA accredited laboratory, for review and approval by NHDOT.
A written certificate of conformance to these specifications shall be submitted to NHDOT, for coatings utilized on equipment supplied to NHDOT, indicating these compounds do not exceed Toxicity Characteristics of NH Code of Administrative Rules Env-Hw 403.06, Table 4.9, Regulatory Limits. Material Safety Data Sheets are not sufficient documentation of conformance. Laboratory test results must be supplied with the written certificate. The following test methods are incorporated by reference herein, and shall be used to test coatings.

4. EPA Test Methods 3010A/6010B.
5. Alternative methods which are shown to accurately determine the concentration of hexavalent chromium or cadmium compounds in a subject coating product or its emissions may be used upon written approval.

The coatings also shall meet the following criteria:

- **Solids Content**
  - % By Volume  45- 60
  - % By Weight  55 –70
- **Recommended Dry Film Thickness (DFT)**  1 – 2 ml
- **Wet Film Thickness to Achieve DFT**  2 ½ - 4 ½ ml
- **Practical Coverage at DFT**  325 – 650 sq. ft.
- **Dry Time (70 – 80°F and 50% humidity)**
  - Tack Free  4 – 6 hours
  - Handle  12 – 16 hours
  - Recoat  24 hours

All bulk coating supplies shall be packaged in 1-gallon containers.