



AUTHORIZATION PROCEDURES AND ACCEPTANCE CRITERIA FOR TWO-COMPONENT TRAFFIC STRIPING PAINT

The following procedures are required to authorize two component traffic paint suppliers for inclusion on the Authorized Material List (AML). This program is administered by the Office of Central Laboratories, Chemical Testing Branch. Two component traffic paint specification requirements are listed in Section 84-2 of the 2015 Standard Special Provisions and the 2015 Standard Specifications. Use two-component painted traffic stripes and pavement markings on roadways where (1) light-to-moderate snow plowing is required and (2) abrasion-resistant striping is required.

1. For new materials the manufacturer will provide:

- A. Authorized Material List Submittal Form TL-9502, <<http://cefs.dot.ca.gov/jsp/forms.jsp>>
- B. Material/system data sheet with detailed performance information, properties, and installation instructions. Data in this document will indicate that the system will meet the performance acceptance criteria.
- C. Safety Data Sheet.
- D. Send in a quart sample of two component traffic paint, both white and yellow to the Chemical Testing Branch.

2. Performance acceptance criteria:

The manufacturer shall provide the following information.

- Mix ratio, by volume or weight
- Pot life/ working time
- Lead or chromium content, must be less than 20 mg/kg lead and 5 mg/kg chromium
- No track time, with post applied beads
- Initial expected retroreflectivity with the two types of post applied beads.

Quality Characteristic	Test Method	Requirement
Daytime and Nighttime Color, white and yellow	ASTM D 6628	within color box
Luminance Factor, white, min	ASTM D 6628	80
Luminance Factor, yellow	ASTM D 6628	42-60
Yellowness index, Illuminant C, 2° Std Observer, max, white only	ASTM E 313	10



Quality Characteristic	Test Method	Requirement
Yellowness index, after 300 hrs QUV-A exposure ^a , max	ASTM E 313	15
Color match, yellow, after 300 hrs QUV-A exposure ^a	ASTM D6628	Within yellow color box
Adhesion to concrete, 30 mils on a concrete brick, psi, min	ASTM D 4796	300
Hardness, Shore D, min	ASTM D 2240	50

^a QUV ASTM D 4587, Cycle 2

3. Send the submittal and sample to the Chemical Testing Branch.

Caltrans Transportation Laboratory
 Attention: Mariano Pontillas, Two Component Traffic Paint
 5900 Folsom Boulevard
 Sacramento, CA 95819

When the submittal package has been evaluated and reviewed, the Department will notify the manufacturer of the findings. When any discrepancies are resolved to the satisfaction of the Department the material will be placed on the AML.

The authorization date of two component traffic paint will be up to 5 years.

The Department reserves the right to sample, test and to remove the product from the AML at any time.

4. Reauthorization:

Manufacturer should submit its package with current information to the Chemical Testing Branch at least 3 months prior to the listed date. Contact the Chemical Testing Branch with any questions about this program. Mariano Pontillas by phone at (916) 227-5718 or via e-mail sent to at <Mariano.Pontillas@dot.ca.gov>.