

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS  
**SPECIFICATIONS**  
2007

FOR: PAINT - RAPID DRY - CURB MARKING - RED - LEAD FREE

Specification No. B50 Requisition No. \_\_\_\_\_ Quotation No. \_\_\_\_\_

Make \_\_\_\_\_ Model \_\_\_\_\_

Vendor: \_\_\_\_\_ Bid Prepared By: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Specification Written By: Tuong Nguyen Approved By: Javier Robles Approved By: Bob Scharf

NOTICE: Bidder shall complete right hand column, indicating specific size and/or make and model of all components when not exactly as specified. State "As Specified" if item is exactly as shown in left column. Return this questionnaire to the Los Angeles County Purchasing Agent.

**GENERAL**

I. DEFINITIONS

A. In these specifications the following terms or pronouns are used and intended to be defined as follows:

1. County: Los Angeles County,  
State of California.
2. Department: Los Angeles  
County Department of Public  
Works, 900 South Fremont  
Avenue, Alhambra, California  
91803-1331.
3. Engineer: The Director of the  
Los Angeles County Department  
of Public Works or his agent.
4. Purchasing Department:  
Los Angeles County  
Internal Services Dept.  
1100 North Eastern Avenue,  
Los Angeles, California 90063

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5. Purchasing Agent: The Purchasing Agent of Los Angeles County or his deputy.
6. South Coast Air Quality Management District: The regional agency which establishes and enforces the rules within its jurisdiction pertaining to air pollution control. Administration Office, 21865 East Copley Drive, Diamond Bar, California 91765-4182.
7. Antelope Valley Air Pollution Control District: The regional agency which establishes and enforces the rules within its jurisdiction pertaining to air pollution control. Antelope Valley, APCD, 43301 Division Street, Suite 206, P.O. Box 4038 Lancaster, CA 93539-4409.
8. Vendor: Each supplier or manufacture bidding on the Department's traffic paint requirements.
9. Contractor: The successful bidder receiving the contract for supplying paint to the Department.

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#### II. SCOPE:

- A. It is the intent and purpose of this specification to detail the requirements for Caltrans Standard Specifications, Type II, Curb Marking Paint, in red. Paint shall be suitable for application to Portland cement and bituminous curbs; utilizing brush, roller or airless spray equipment.
- B. Testing will be done in accordance with the latest revision of the following test methods:

<u>Description</u>	<u>Method</u>	<u>Test No.</u>
Color Conformity	Fed. 141c	4250
Daylight Reflectance	Fed. 141c	6121
Drying Time	ASTM	D-711
Flexibility	Fed. 141c	6221
Condition	ASTM	D-869
Weight Per Gallon	Fed. 141c	4184.1
Percent Pigment	Fed. 141c	4021.1
Viscosity	ASTM	D-562

#### III. GENERAL:

The paint shall be well mixed in the manufacturing process and shall be properly ground when incorporating the pigments in order to conform to the requirements as specified.

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The paint shall not liver, thicken, curdle, gel, settle excessively, or otherwise show any objectionable properties after periods of storage of at least six months; and, at any time during such periods, shall be readily remixed manually to smooth, uniform consistency throughout.

The paint shall dry on a road curb surface to a strongly adherent film that will not turn dark in sunlight or show appreciable discoloration with age.

The composition of the paint supplied shall conform in all respects to all applicable state and local air pollution requirements including, but not limited to, the South Coast Air Quality Management District's Rule 1113, and applicable rules and regulations from the Antelope Valley Air Pollution Control District, regarding Architectural Coatings, regardless of the quantities of paints delivered.

IV. COMPOSITION:

Sampling, testing, and inspection of the Contractor's products will be accomplished whenever and wherever practicable. If the Engineer so elects, the Contractor shall permit such sampling, testing or inspection at his plant, and shall furnish suitable space and such facilities as may be required.

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The paint shall conform to the following requirements:

Total Pigment % by weight ----- 60±2

Total Vehicle, % by weight ----- 40±2

Total non-volatile, %  
by weight of paint, min.----- 77

Weight per gallon, lbs min.----- 13

Viscosity, @ 77 ° KU ----- 80-95

Fineness of grind, min. ----- 4

Volatile Organic Content, (VOC)  
max.(g/l) -----100

Laboratory Dry time, 77 ° F  
ASTM D-711, minutes, max. ----- 5

Dry through time, (Early Washout), 15  
mils wet @ 90%, R.H. @ 72.5 ° F,  
ASTM D-1640, minimum pressure  
minutes, max.----- 125

Field Test, No tracking time under  
Ambient conditions, seconds ---- 20-90

Coverage: 100 ft. Sq. Ft /gallon  
@ 15 Mils wet----- 100

VI. DETAILED REQUIREMENTS

The finished paint shall have the following quality requirements:

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Condition in Container: The paint as received shall show no livering, skinning, mold growth, petrification, corrosion of the container, or hard settling of the pigment. Any settling shall be readily dispersed when stirred by hand with no persistent foaming.

Color: The colors of Type II curb marking paints shall match the numerical designations of Federal Standard No. 595b, color # 11086.

Flexibility: Tests for flexibility shall be conducted in accordance with Method 6221 of Federal Test Method STD. No. 141c with the following modifications:

- a. Paints shall be applied to a thickness of .005" with a .010" clearance Bird Film Applicator on duplicate tin panels, and air dried for 72 hours minimum.
- b. A ½" diameter rod held firmly by suitable supports shall serve as the mandrel.
- c. The band samples shall show no cracking, flaking or loss of adhesion when viewed without magnification.

Dry Opacity: The minimum Contrast ratio shall be 0.92 at 5 mils wet

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Daylight Reflectance: The daylight directional reflectance of the red paint shall be not less than 50% when measured in accordance with Federal Test Method No. 141c.

Bleeding: The paint shall have a minimum bleeding ratio of 0.97 when tested in accordance with Federal Spec. TT-P-1952b.

Scrub Resistance: The paint shall pass 1500 cycles when tested in accordance with ASTM D-2486.

Freeze-Thaw Stability: The paint shall show no change in consistency greater than 10% when tested in accordance with TT-P-1952b.

Dry Through (Early Washout): A 12-15 mil wet film of the candidate paint placed immediately in a humidity chamber maintained at  $72.5^{\circ}\text{F} \pm 2.5^{\circ}\text{F}$  and  $90\% \pm 3$  relative humidity shall have a "dry-through" time less than, or equal to 125 minutes when tested in accordance with ASTM D1640, except that the pressure exerted will be the minimum needed to maintain contact between the thumb and film.

Dry time Laboratory tests for drying time shall be conducted in accordance with specifications detailed in ASTM D 711 with exceptions relative to film thickness and drying time as tabulated below:

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<u>Wet Film Thickness</u>	<u>Drying Time (Maximum)</u>
Type II .005	30 Min.

Storage Stability: When stored in a three-quarters filled can for a period of thirty days, the paint shall be in a homogeneous state with no skinning, curdling, hard settling or caking that cannot be readily remixed.

### VII. PACKAGING AND MARKING

All manufactured paint shall be prepared at the factory ready for application. Quantities and sizes of containers shall be as specified by the Engineer on individual orders.

The paint shall be furnished in containers which meet all of U.S. Department of Transportation Hazardous Material Shipping Regulations.

Containers shall be as follows:

- a. When 5-gallon containers are specified, they shall be round and have standard full open head and bail. Sufficiently sealed 24-gauge steel containers, round, lug-type crimped lid with ring seals and bails, which conform to interstate commerce shipping standards.
- b. If 55-gallon steel drums are specified, they must have removable lid and airtight band fasteners.

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All shipping containers must comply with Code of Federal Regulations, Title 49 and all other applicable Federal and State Regulations governing their use. The containers and lids must be lined with a suitable coating so as to prevent attack by the paint or by agents in the airspace above the paint.

The construction of the container shall allow it to be picked up by a forklift when approached from any side. Provisions shall be made to allow the tanks to be lifted from the top and stacked when empty. Bulk tanks shall comply with U.S. Department of Transportation Regulation 57 as it applies. The outside of containers and lids must be silver color stainless steel coated white or off-white to avoid excessive heat build-up when sitting in sunlight.

All containers shall be labeled to show the following:

1. Name and address of Contractor.
2. Name and product.
3. Color of paint.
4. Date of manufacture and batch number.
5. Purchase order number.
6. Precautions concerning the handling and application of paint, in accordance with the Construction Safety Orders and General Safety Orders of the State of California.
7. Statement indicating that the contents fully comply with all rules and regulations concerning air pollution control in the State of California

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and the County of Los Angeles.

VIII. SAMPLING AND TESTING

A. Qualifying Test

Each Vendor must submit, along with their bid, test samples consisting of four one-quart containers of paint along with a batch formula in weight proportions.

The formula shall be in generic terms rather than trade names. Any sample may be tested. Bids submitted without test samples may be considered nonresponsive and may be rejected

B. Quality Assurance Tests

All paint ordered from the Contractor shall be subject to testing at anytime, at the Engineer's discretion.

Every batch must be accompanied by two one-quart samples for all shipments sent within the first six months of the contract.

The Department reserves the right to accept or reject a specific batch or batches of paint based upon results of such sample tests. The Department also reserves the right to obtain samples at the contractor's plant at the time of manufacture, and hold up shipment until such tests indicate the paint is acceptable. All paint furnished under contract shall be identical, insofar as possible, with the

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qualification samples of the paint submitted for laboratory and field testing under Section VIIIA

In the event any paint does not comply with the specification, the Contractor will be required to replace all remaining in the possession of the Department at the Contractor's own expense **within 30 calendar days**. This includes all handling and transportation charges.

### IX. RANDOM TESTING

All paint ordered from the Contractor shall be subject to random sample testing two weeks from the date of delivery. Testing by the Engineer will be completed within 10 days. The Department reserves the right to accept or reject a specific batch or batches of paint based upon results of such sample tests.

Public Works also reserves the right to obtain samples at the Contractor's Plant at the time of manufacture, and hold up shipment until such tests indicate the paint is acceptable.

All paint furnished under contract shall be identical, insofar as possible, with the qualification samples of paint submitted for laboratory and field testing.

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X. ACCEPTABILITY OF PAINT

Acceptability of the paint shall be judged solely by Public Works. Decisions shall be final and in the best interests of Public Works.

XI. SOLVENTS

The Contractor shall furnish the name of the appropriate solvents used for cleanup of the paint. If special solvents are required, the Contractor must indicate the sources, costs, and precautions in use of the solvents.

XII. DELIVERY

The Contractor has 30 calendar days to make a delivery. In the event the Contractor fails to make the delivery during the allotted time, he shall make an assessment payment to the Department. The assessment shall be fixed at a rate of \$100 for each calendar day the delivery load is past due. The assessment shall be calculated at the rate of a load being defined as 1,000 gallons. This assessment is not being imposed as a penalty, but as a fixed sum representing the amount due for the total value consideration of the purchaser having to compensate for the late delivery.

If the Purchasing Agent deems necessary, the Purchasing Agent may elect to purchase the same material from another vendor. The Contractor

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shall pay all additional charges for the purchase of the material from another vendor

If at anytime between receipt of a purchase order and completion of its delivery there is cause that would make delivery completion outside of the calendar days allowed, it shall be the responsibility of the Contractor to notify the Department by fax of the situation. The notification shall be addressed to:

Los Angeles County  
Department of Public Works  
Operational Services Division  
P.O. Box 1460  
Alhambra, CA 91802-1460  
Fax (626) 458-7353

The imposition of the late delivery assessment shall be at the discretion of the Purchasing Agent based upon the causes cited and the intent to deliver of the Contractor. The Contractor's failure to make this notification shall waive his right to contest the amount of the late delivery assessment.

All shipments must be accompanied by proper material Safety Data Sheets (MSDS). If these documents are not supplied with the shipment, the shipment may be rejected

In the event the Contractor fails to meet these specifications, at the discretion of the Purchasing Agent

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- The contract will be canceled or terminated,
- And/or the Contractor will be withheld from bidding again on this specification for one year,
- and/or the Contractor must replace all quantities of bad paint at no cost to the Department within 30 calendar days.

The delivery point for all material shall be the loading or paint dock at the Department's Main Warehouse located at 1537 Alcazar Street, Los Angeles, California 90033. Imposition of the late delivery assessment shall be at the discretion of the Purchasing Agent based upon the causes cited and the intent to deliver of the Contractor. The Contractor's failure to make this notification shall waive his right to contest the amount of the late delivery assessment

TN:

P:///Ospub/Gen/TN/Spec/B50 Spec

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