



RUBBER TRAFFIC SAFETY MARKING PAINT
SOMAY Products No. 467 & 468
(White and Lead Free Yellow)

1. SCOPE

This specification covers paint suitable for application to traffic bearing surfaces such as portland cement, concrete, bituminous pavement, and plain or vitrified brick surfaces of streets, highways, bridges, tunnels and parking lots.

This paint is intended to be applied at a wet film thickness of 0.015 inch (15 mils) by means of conventional traffic line striping equipment. Optional: Paint stripes can be reflectorized for night visibility by adding reflective media (glass spheres) before the paint film dries or sets-up, using the drop-on method. The reflective media shall be evenly dispersed on the wet paint at a rate of 6 pounds of glass spheres per gallon of paint.

2. TYPES AND COLORS

Type: Paint shall be of the Vinyl Toluene-Butadiene type.

Color: Traffic paint shall be furnished in two colors, white and yellow. The “Standard Yellow” for Highways, Signs and Markings” is the same as Color No. 33655 of Fed. Std. No. 595. The “Standard White” is the same as Color No. 37875.

3. REQUIREMENTS

- A. General - Traffic paint shall consist of a ready-mixed pigmented binder in a one-package system.
- B. Pigments - The supplier may use any combination of pigments provided the finished paint meets all the requirements specified herein. Sufficient suspending and dispersing agents shall be used to prevent excess settling.
- C. Vehicle - The vehicle for this paint shall be a combination of polyvinyl toluene-butadiene copolymer resin solids, chlorinated paraffin and petroleum hydrocarbon resins, with plasticizer(s) and wetting agent(s), in a suitable solvent or solvent system. Sufficient amounts of anti-skinning agent shall be used. Sufficient resin solids, compatible thinners and driers shall be used.

D. Quantitative requirements - The mixed paint shall meet the quantitative requirements specified below:

Pigments, percent by weight	
White	50 - 53
Lead Free Yellow	47 - 50
Nonvolatile vehicle, percent by weight of vehicle	31 min.
Uncombined water, percent by weight of paint	1.0 max.
Coarse particles and skins, percent by weight of pigment	1.0 max.
Consistency, Krebs units	70 - 80
Weight per gallon, lbs.	10.1 min.
Drying time for No Pick Up, minutes	30 max.
Bleeding ratio	0.90 min.
Fineness of grind, Hegman	3 min.
Directional reflectance of white paint, percent	80 min.
Dry opacity	
White	0.86 min.
Yellow	0.90 min.

E. Qualitative Requirements -

- 1) Color of Paint - The color of the yellow paint shall visually match chip No. 33655 of Fed. Std. 595. The color of the white paint shall visually match that of chip No. 37875.
- 2) Condition in Container - The paint shall not show excessive settling in a freshly-opened full can, and shall be easily redispersed with a paddle to a smooth, homogeneous state. The paint shall show no curdling, livering, caking, lumps, skins, or color separation.
- 3) Skinning - The paint shall not skin within 48 hours in a three-quarter filled, tightly closed container.

- 4) Flexibility and Adhesion - The paint shall show no cracking, flaking or loss of adhesion under normal use conditions, as determined in accordance with Method 6221 of U. S. Fed. Test Method, Std. No. 141.
- 5) Water Resistance - The paint shall show no softening, blistering, loss of adhesion or other evidence of deterioration, other than a slight loss in gloss under normal use conditions.
- 6) Dilution Stability - The thinned paint shall be uniform and show no separation, curdling, or precipitation, after reduction in the proportions of eight parts by volume of the packaged material with not more than one part by volume of the appropriate thinner for this type of paint.
- 7) Spraying Properties - The paint as received, or diluted no more than specified, shall have satisfactory spraying properties when applied at a wet film thickness of approximately 0.015 inch.
- 8) Appearance - The sprayed film shall dry to a smooth, uniform finish, free from roughness, grit, unevenness, and other surface imperfections. The paint shall show no streaking or separation when placed on glass.
- 9) Appearance After Aging - After accelerated weathering, the white paint shall show no more than a slight discoloration. The yellow paint shall be within the normal tolerance limits.

4. QUALITY ASSURANCE PROVISIONS

The supplier is responsible for the performance of all inspection requirements as specified herein. The supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein.

5. PACKAGING

The paint shall be in 1-gallon metal cans, 5-gallon steel pails, or 55-gallon drums. A U. S. gallon, at 60 ° F. equals 231 cubic inches. All packaging MUST meet current UN and/or US Dept. of Transportation requirements.

6 COMPARABLE SPECS

SOMAY Product Nos. 468-11 (Black) and 468-5M (Handicapped Blue) are made to these same specifications, excepting color pigments.