

Type 1: A Type 1 marking shall consist of marking an area with alternate diagonal stripes of reflective yellow and a stripe of a non-reflective material. The size of the area and the width and slope of the stripes along with the reflective color will be shown in the detailed plans or directed by the Engineer.

Type 2: A Type 2 marking shall consist of marking an area with reflective white or silver-white material. The size and shape of the area of coverage will be shown in the detailed plans or directed by the Engineer,

708.02 Materials.

(a) REFLECTIVE MATERIAL.

The reflective material furnished for use shall be capable of readily adhering to various types of material especially concrete, steel, and wood, and capable of being applied by brush, spray, silk screen or other acceptable methods. The reflective material shall be capable of being applied in one application, that is, the addition of another material such as beads to produce the required reflectivity will not be acceptable.

Reflective requirements when tested by the procedure outlined in paragraph 4.4.7 of Federal Specifications LS-300A shall be as follows:

COEFFICIENT OF RETROREFLECTIVITY candlepower/footcandle/square foot {candelas/lux/m ² }							
		Color					
		White or Silver-White #1		White or Silver-White #1		Yellow	
Incident Angle	Divergence Angle	.2	.5	.2	.5	.2	.5
	- 4		20	10	40	20	10.
- 40		7	4	11	8	3	3

Test panels of the materials shall be submitted for evaluation of the reflective capabilities by the Testing Engineer. Test panels shall be square, 12 inches X 12 inches {300 mm by 300 mm}, and shall be made of aluminum prepared with a good quality of white exterior primer. The reflective material shall be applied at the manufacturer's recommended wet film application rate and such rate shall be noted on the back of the test panel.

Drying time of the material shall be such that the surface treated shall be dust free within 10 minutes and dry to touch within 30 minutes after application.

Durability of the material shall be such that no appreciable discoloration, cracking, crazing or blistering occurs and at least 80% of the specified reflective requirements is retained after exposed for 1200 hours to Atlas twin arc weathering in accordance with ASTM D 822.

(b) NON-REFLECTIVE MATERIAL.

The non-reflective material furnished for use shall be a flat black color meeting one of the following requirements:

1. Comply with the requirements noted in Subarticle (a) above except that there will be no reflective requirements and the material shall have a gloss reading of less than 20 units at an angle of 45° when measured with a photovoltmeter or a meter capable of giving equal results.

2. Comply with the following requirements:

- Capability of readily adhering to a concrete surface.
- Provide a uniform high degree of hiding power with one application.
- Tests:

Total Solids	50 Min.	FSS-4041
Weight {Mass} per gallon {liter}	9 pounds {1 kg} Min.	FSS-4184
Viscosity	60 KU Min. - 80 KU Max.	FSS-4281
Dry Time	8 hrs. Max.	FSS-4061 with 0.0025 inches {0.06 mm} wet film
Fineness of Grind	4 Min.	Hegman Scale
Gloss Reading	20 units @ 45° Max.	Photovoltmeter or equivalent