



# MIL-E-15090C

## Light Gray

### Equipment Enamel

#### DESCRIPTION

A general purpose shipboard enamel for use as a topcoat of equipment, machinery, furniture and electrical apparatus. The paint is a light gray equipment enamel (Navy Formula No. 111) for shipboard use as a topcoat on equipment, machinery, furniture and electrical equipment, such as switchboard installations. The light gray equipment enamel covered by this specification is either a medium, fast drying air dry enamel, or a baking enamel coating for use in all interior dry areas.

#### TYPES & CLASSIFICATIONS

Type I: Medium Air Drying    Type II: Fast Air Drying    Type III: Baking  
Class 1: Gloss    Class 2: SemiGloss

#### SPECIFICATIONS

COLORS:	Class 1 ~16307 Gloss Gray	DRY TIMES:	77° F, 50% RH
	Class 2 ~26307 SG Gray		<u>Type I</u> <u>Type II</u>
		-To Touch	3 Hours Min.    1 Hour Min.
GLOSS: 60° Meter:		-Dry Hard	48 Hours    24 Hours
Gloss:	65% minimum	-Full Cure:	1 Week    1 Week
SemiGloss:		ADHESION: Cross Hatch Tape Pull:	
Type I	25-35%	-Plain Steel	100%
Types I, III	20-35%	-Treated Aluminum	100%
		-Primed Aluminum	100%

## APPLICATION INFORMATION

**THINNING RATIO:** Mil-T-81772 Type III Enamel Thinner is the recommended thinner for all three types of Mil-E-15090C. By volume, thin in the following ratios:

- Type I: Four (4) parts paint to one (1) part thinner
- Type II: Four (4) parts paint to one (1) part thinner
- Type III: Three (3) parts paint to one (1) part thinner

The following thinners may be used as suitable alternatives to the Mil-T-81772 Enamel Thinner:

- Type I: Mineral Spirits
- Type II: Toluene
- Type III: Spectrum Coatings' Bake Enamel Reducer

**APPLICATION:** This material may be applied by any conventional spray method including HVLP and electrostatic systems. Dry films should be in the range of 1.2 to 2.0 mils thick.

**CURING: Types I & II:** At 77°F this material will dry hard in 24-48 hours but will require 1 week to fully cure. **Types I & II** may be force cured by heating at 220°F for 1 - 2 Hours following a one (1) hour air dry period. **Type III:** Bake @ 300°F for 15 minutes or @ 275°F for 30 minutes following a one (1) hour air dry period.

**SURFACE PREP:** All surfaces to be coated must be free of dirt, oils, greases, polishing compounds, fingerprints, and any other foreign matter including oxidation products.

## SAFETY & HANDLING INFORMATION

**FIRE & EXPLOSION DATA:** In case of fire use foam, CO<sub>2</sub>, or dry chemical firefighting apparatus. The use of self-contained breathing apparatus is recommended for firefighters. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.

### **HEALTH & FIRST AID:**

**EYES:** Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact. If this product comes in contact with the eyes, flush with large quantities of water for at least 15 minutes. Seek medical attention.

**SKIN:** The use of impermeable gloves is advised to prevent skin irritation on sensitive individuals. If this product comes in contact with the skin, wash with a mild soap and large quantities of water. Seek medical attention if irritation persists.

**INHALATION:** The use of respiratory protection depends on vapor concentrations above the time-weighted TLV; use a NIOSH approved cartridge respirator or gas mask. If breathing difficulties, dizziness, or lightheadedness occur when working in areas with high vapor concentrations, seek fresh air. If difficult breathing continues, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and seek medical attention.

**HANDLING:** General mechanical ventilation may be sufficient to keep vapor concentrations within specified TLV ranges. If general ventilation proves inadequate, supplemental local exhaust may be required. Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation, and sufficiently ground containers when transferring this material. Dispose of this product in accordance with applicable local, county, state, and federal regulations.

**NOTE:** The above information is supplied as a guideline to our customers. The user must be aware of the cleaning, pretreatment, application and testing requirements for their specific job.