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TT-E-527C
Lusterless Alkyd Enamel

Description

This one component high grade, alkyd type, matte-gloss enamel is intended for use on primed exterior and interior wood or metal substrates, but particularly on smooth exterior metal. This coating is a combination air-drying and baking enamel. It is highly weather resistant and is characterized by good color and gloss retention. Can be applied with either brush or spray. It is available in all 3 series colors conforming to Federal Standard 595b with a gloss range of 4% maximum on a 60º meter.

Suggested Applications

- Machinery - Motors - Trucks - Tractors - Railings - Steel Structures
- Pumps - Metal Signs - Metal Fences - Metal Drum Exteriors

Performance Characteristics

Adhesion:	Cross-Hatch Tape Pull
	-Plain Steel: No Loss
Pencil Hardness:	2B Minimum
Flexibility:	Passes 1/8” Mandrel Bend
Dry Times:	
Air Drying	
To Touch:	2 Hours
Dry Hard:	8 Hours
Recoat:	24 Hours
Full Hardness:	72 Hours
Full Cure:	1 Week
Baking	
Dry Through:	45 Minutes, Maximum 250°F
Recoat:	After bake cycle, allow to return to room conditions
Full Hardness:	24 hours after full bake cycle

Chemical Resistance:

1 Hour Spot Tests:

-Engine Oil:	No effect
-Transmission Oil:	No effect
-Hydraulic Oil:	No effect

Water Resistance:	1 Week: No Softening, Whitening or Dulling ASTM D 1308
Hydrocarbon Resistance:	8 Hrs: No Softening, Whitening or Dulling ASTM D 1308
Accelerated Weathering:	100 Hrs: No Cracking, Slight Loss of Gloss ASTM D 2244/ E97
Weather Resistance:	18 Months, No Checking or Cracking ASTM D 659
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Application:

For spraying, mix by volume four (4) Parts TT-E 527C with one (1) Part Mineral Spirits (TT-P-291F). For brushing, reduce with not more than 5% Mineral Spirits.
Spray to a dry fim thickness between of 1.1 to 1.5 mils.
After spraying, allow sprayed parts to stand for 45 minutes before baking. Allow a longer timeframe before baking for brush applications.

Surface Preparation:

All surfaces to be coated must be clean and free from dirt, oils, greases, polishing or rubbing compounds, fingerprints, and any other foreign matter.

Primers:

Ferrous Metal Surfaces: TT-P-636 or TT-P-659.

Primers should be air dried 18 hours before applying TT-E-527C Alkyd Enamel.
A coat of primer surfacer conforming to TT-P-659 may be used for white or light tints.
TT-E-527D can be applied to bare metal surfaces (such as metal office furniture) which have been prepared in accordance with Type I or III of TT-C-490.

SAFETY & HANDLING INFORMATION

FIRE & EXPLOSION DATA: In case of fire use foam, CO2, 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, primer, application and testing requirements for their specific job.