



ESGARD

ESGARD PL-4.1 MIL-PRF-16173E CLASS I GRADE 4

DESCRIPTION	PL-4.1 is an easily removable, transparent, non-tacky thin film preservative. It contains an effective corrosion inhibitor to protect metal surfaces while in manufacturing, storage or shipping. PL-4.1 is a listed qualified product under MIL-PRF-16173E CLASS I GRADE 4 (aka: P-19 preservatives).
FIELD OF APPLICATION	PL-4.1 is intended for general purpose indoor and limited outdoor preservation of corrodible metals with or without an over wrap and where handling, stacking and counting requires a tack-free coating. It is also used where there is no requirement for miscibility with lubricating oil and where ease of removal with Stoddard's solvent is important.

TECHNICAL DATA

FILM PROPERTIES	Transparent, non-tacky rust preventive film
TYPE	Solvent reduced corrosion prevented compound.
DENSITY	7.2 lbs./gal (0.87 kg/l)
FLASH POINT	105°F (40.5°C) PMCC
VOLUME SOLIDS	43%
COVERAGE (theoretical)	345 sq ft/gal at 2 mils dry (4.6 mils wet) 8.47 sq m/l at 50 microns dry (115 microns wet)
VOC	478 gr/l (3.99 lbs./gal)
DRY TIME	To touch: 4 Hour. To handle: 24 Hours
FINAL FILM	Firm waxy film

SURFACE PREPARATION	All surfaces should be cleaned free of all dirt, rust, hydrocarbons and other surface contaminants.
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APPLICATION	PL-4.1 is supplied in ready-to-use form. Agitate well before using as some separation may occur. Ventilate enclosed areas until solvent/gas free. SPRAY: Use conventional or airless equipment. Tip size should be such to allow for adequate atomization and single coat application. Apply to 4.6 mils (115 microns) wet film thickness. Ventilate enclosed areas until solvent/gas free.
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Manufacturers of Quality Protective Coatings
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BRUSH: Apply coating to the item via clean, quality paint brush. Take care to apply an amount sufficient to ensure a uniform wet film thickness of 4.6 mils (115 microns). Ventilate enclosed areas until solvent/gas free.

ROLLER: Apply coating to the item via clean, quality roller. Take care to apply an amount sufficient to ensure a uniform wet film thickness of 4.6 mils (115 microns). Ventilate enclosed areas until solvent/gas free.

DIP: Maintain PL-4.1 at 60°F (15°C) or higher. Viscosity increase at lower temperatures will cause excess millage build-up during application.

FILL AND DRAIN: Fill item to be protected with coating, drain out completely, ventilate till solvent/gas free and seal.

THINNING	DO NOT THIN OR DILUTE. APPLY AS SUPPLIED.
REMOVAL	Esgard Thinner 102, mineral spirits or naphtha.
CLEAN UP	For equipment use, Esgard Thinner 102, mineral spirits or naphtha. For personal cleanup, use soap and water.
POT LIFE	Not applicable
SHELF LIFE	24 months
CAUTION after	FOR INDUSTRIAL USE ONLY! COMBUSTIBLE! Contains petroleum distillates. Do not use or store near heat, sparks, or flames. Close container use. Good practice and common sense should be used. Safe application practices should include the use of respirators, eye protection, adequate lighting, and ventilation.
SAFETY	Refer to Safety Data Sheet supplied with each order.
FIRST AID	Refer to Safety Data Sheet supplied with each order.