



Simco Coatings Inc.

Manufacturer of Military Spec.,
Corps of Engrs. Spec, Industrial, &
Marine Coatings

TECHNICAL DATA SHEET

MILGUARD-24631/3B FORMULA 186
EPOXY WHITE PAINT FOR SUBMARINES

DESCRIPTION/CONFORMANCE: A two-part epoxy/amine, lead & chromate free, VOC compliant coating designed to conform the specific composition and conformance requirements of Military Specification MIL-DTL-24631/3B (SH), Navy Formula-186, Type-I White.

PRINCIPAL CHARACTERISTICS AND SUGGESTED USE:

- Excellent water and weather resistance for interior and exterior use.
- Good impact resistance.
- Resistant to spill/splash mild chemicals
- Easy applications by airless spray up to 4.0 mils (100 Microns) dry film thickness.
- Suitable to be used on areas above the water line where color retention is essential.
- Imparts excellent adhesion to both rubber and steel substrates and is, therefore, recommended for application at rubber and steel interfaces for exterior use on submarines.

TECHNICAL DATA

COLOR & FINISH:	White, Sheen Finish
GENERIC TYPE:	Epoxy Resins and Amine Curing Agent
% WEIGHT SOLIDS (MIXED):	71.0 ± 1
% VOLUME SOLIDS (MIXED):	60.00
VOLATILE ORGANIC COMPOUNDS (VOC):	2.80 lbs./gallon & or 340 g/l
THEORETICAL SPREADING RATE:	Approx. 900 sq.ft. /gallon
RECOMMENDED DRY FILM THICKNESS:	3-4 MILS
PACKAGING:	A Two Component material with base and curing agent supplied in separate packages. Mix ratio in equal Volume
POT LIFE MIN:	6 Hrs.
SHELF LIFE:	12 Months
FLASH POINT:	81°F (27°C)
REDUCER/CLEAN-UP:	Epoxy Thinner # MIL-T-81772B Type II
DRY TIME @ 75°F:	
A.) SET TO TOUCH TIME (HRS.)MAX:	8 Hrs.
B.) DRY HARD TIME (HRS.)MAX:	24 Hrs.
C.) TO SERVICE:	
(i) (Non Immersion)	3-4 Days
(ii) (Immersion)	7 Days

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SURFACE PREPARATIONS:

All surfaces to be coated must be dry and cleaned free of rust, oil, dirt, soil and other contaminants. For general use steel should be blast cleaned to a minimum of commercial grade SSPC SP-6". For severe service and sustained immersion, "Near White" SSPC SP-10 is recommended.

For best results apply when surface temperature is above 50 °F (10°C) and a minimum of 5°F (3°C) above the dew point, and relative humidity is no greater than 85%.

APPLICATION:

Spray recommended. Brush or roller may be used with additional thinning required. Care should be taken to achieve required film build. Thoroughly mix each component, separately. Pour Component B into Component A with constant stirring until 1:1 ratio by volume is achieved. Allow the mixture to stand 30-45 minutes as the induction period before using.

CONVENTIONAL SPRAY: DeVilbiss MBC-510 spray gun "E" Fluid Tip #704, #765 or #78 Air Cap.

AIRLESS SPRAY: Use of spray tips with 0.015" to 0.021" orifice is suggested depending on available pressure and job conditions, with a minimum of 2800 PSI tip pressure.

SAFETY PRECAUTIONS:

(A) Use normal precautions such as gloves, facemasks. (B) Adequate ventilation must be maintained. (C) Explosion proof lights and electrical equipment. (D) Non-sparking shoes and tools for workers in the area. (E) This product contains flammable materials. Forbid all flames, smoking and welding in the work area. (F) Avoid breathing of vapor, contact with skin and eyes.

NON-WARRANTY:

The technical data listed herein has been compiled for your convenience and guidance, and is based upon our experience and knowledge. However, since we have no control over the use of this information or of this product, no warranty, expressed or implied, is intended or given. Simco Coatings, Inc., assumes no responsibility whatsoever for coverage, performance, or any other damages, including injuries resulting from use of this information or of products recommended herein.

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