



Simco Coatings Inc.

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

TECHNICAL DATA SHEET

MIL-DTL-24631A FORMULA 187
POLYESTER URETHANE BLACK 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-24631A, Navy Formula-187 Black Type-II.

PRINCIPAL CHARACTERISTICS AND SUGGESTED USE:

- Excellent water and weather resistance for exterior use.
- Provides a highly flexible topcoat
- Good impact resistance.
- Resistant to spill/splash mild chemicals
- Easy applications by airless spray up to 4.0 mils (100 Microns) dry film thickness.
- Used as a topcoat for MIL-DTL-24631 Epoxies for exterior use on submarines.

TECHNICAL DATA

COLOR & FINISH:	Black, Low Gloss Finish
GENERIC TYPE:	Polyester Resin and Polyisocyanate Curing Agent
VOLATILE ORGANIC COMPOUNDS (MIXED):	2.8 lbs./gallon & or 340 g/l
SAG (WET MILS):	Minimum = 7
THEORETICAL SPREADING RATE:	Approx. 960 sq/ft /Gallon @ 1.0 Mil. DFT
RECOMMENDED DRY FILM THICKNESS:	3-4 Mil
PACKAGING:	A Two Component material with base and curing agent supplied in separate packages. Mix ratio is 4: 1 (4 parts Component A: 1 part Component B)
POT LIFE MIN:	1 Hour
SHELF LIFE:	12 Months
FLASH POINT:	90°F (32°C)
REDUCER/CLEAN-UP:	Di-isobutyl Ketone or Butyl Acetate
DRY TIME @ 75°F:	
A.) SET TO TOUCH TIME (HRS.)MAX:	2 Hrs.
B.) DRY HARD TIME (HRS.)MAX:	18 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. Do NOT apply when surface temperature is below 45°F (7°C) or relative humidity is greater than 80%.

APPLICATION:

Roller is recommended. No thinner necessary if rolling. Care should be taken to achieve required film build. Thoroughly mix each component, separately. Only pour enough material for use in 1 hour. Pour Component A into a separate container, then pour Component B into Component A with constant stirring until completely uniform. Allow the mixture to stand 5-10 minutes as the induction period before using.

CONVENTIONAL SPRAY: DeVilbiss MBC-510 spray gun "E" Fluid Tip #704, #765 or #78 Air Cap. If thinner is necessary, butyl acetate is the recommended thinner. Do NOT exceed more than 5% by volume.

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. If thinner is necessary, butyl acetate is the recommended thinner. Do NOT exceed more than 5% by volume.

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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