SEA-Speed™ DTM V3

Release Jan 2005

(Hard film Fluorinated siloxane foul release direct-to-metal coating)

SEA-Speed™DTM is a high technology blend of polysiloxanes and high solids epoxy resins. The latest in non–stick foul release underwater hull coating technology, **SEA-Speed™DTM** provides outstanding performance against marine growth, increased fuel economy and ease of application. **SEA-Speed™DTM is a** non-toxic, environmentally safe coating that does not contain cuprous oxide or TBT (tributyltin) nor does it polish or ablate, therefore providing a long life coating system against fouling. The **SEA-Speed™DTM** technology enables the coupling of polysiloxane and epoxy into a fused, flexible yet tough protective film. Through the incorporation of the silicone (polysiloxane), the film provides a very low coefficient of friction that is non- condusive to marine growth. **SEA-Speed™DTM** differs from other silicone paints in that it cures into a very hard, durable and highly abrasion resistant elastomeric film. The system is designed as DTM (direct to metal) application or may be use in conjunction with an epoxy anti corrosion primer and has an ultra high solids content with very low V.O.C. (less than 1lb. Per gallon). Refer to specifications for additional details.

Product Benefits:

- Non-toxic, environmentally safe (no poison)
- Ultra low V.O.C. emissions (volatile organic compounds)
- Extremely hard film to resist against damage and wear
- Low co-efficient of friction, not allowing marine growth to adhere
- Extremely smooth surface to maximize speeds and fuel efficiency
- Available in a wide range of colors
- Competitively priced against soft film foul release coating and copper based coating systems based on total lifecycle costs

Application Benefits:

- Reduced number of coats to be applied cuts dry-docking time and costs
- 30% less weight than conventional anti-fouling coating systems
- No dedicated silicone spray pumps. No silicone contamination to airless pumps
- Easy to spray with high sag resistance and excellent edge retention

CHARACTERISTICS:

- 90 % solids
- Low VOC (.63 lbs/gal or 76 gr/liter)
- DTM capable technology or combined with anti corrosion coatings.
- No TBT or Cuprous oxides
- Excellent physical / curing properties
- Re – Float in 24 hours
- Available for fiberglass, gel-coat hulls. ***SEA-Speed™ GC***

Product Applications:

- **Underwater hulls on ships, boats, barges (steel or aluminum)**
- **Intake tunnels on power generation circulating water cooling systems**
- **Underwater sections of offshore drilling rigs and production platforms**
- **Sub-sea equipment**
- **Fiberglass strakes and gel-coat hulls refer to SEA-Speed™GC**

SeaCoat TECHNOLOGY, LLC. 11215 Jones Rd. West Suite H, Houston, TEXAS. 77065
PH: 832 237 4400 / Toll Free: 888 480 4397 / Fax: 832 237 4414
www.seacoat.com

PRODUCT & PERFORMANCE DATA
@ 77° F (25° C)

Type: Three component Polysiloxane Epoxy

Cure: Chemical reaction

Solids: Approx.90 % by Volume

VOC Content: (.63 lbs/gal or 76 gr/liter)

Mass density: 11.2 Lbs. Per gallon (1.34 g/cm3)

Flash point: Resin: >200° F (> 93° C)
Hardener: Same

Shelf life: 12 months subject to re-inspection

Ratio: By Volume: 1 part A (activator)
1 part B (Base Resin)

Gloss: High

Thinner: None. Reduce viscosity by maintaining storage temperature above 73° F (23° C). Viscosity may be reduced by mixing parts A and B separately with a rotary mixer.

Clean up solvent: Epoxy thinner, MEK, EEP

Technical Data

Ratio: 1:1 by Volume

Potlife: 75 minutes @ 77° F (25° C)

Tack free: 4 hours
Handling: 12 hours
Re-coat: 4 hours minimum/ 36 hours maximum @ 77° F/ 25° C
Re-Float: 24 hours*
Full cure: 72 hours
* For each 10° F under 77° F *(6.25° C under 25° C)* add 6 hrs to re-float time.

Available Packaging

A. Two Gal kit (1 gal. Resin/1 gal. Hardener)

B. Five Gal. Kit (2.5 gal. resin/2.5 gal. Hardener)

Coverage

Theoretical: 1444 sq.ft/gal (35.5 sq. meters/liter) @ 1 mil (25microns) DFT

DTM (Direct to metal) application:
Apply 10 mils DFT (11 mils wet) in one coat. Coverage is 144 sq. ft./gal (3.54 sq. meters/liter)

****Aluminum or Steel Hull: over anti corrosion coat:**
Apply 8-10 mils dry film thickness **HULL-Guard™.**
Apply 7 – 8 mils dry of ***SEA-Speed™DTM***
180-205 sq. ft./gal. (4.42 – 5.04 sq. meters/liter).

** Request industrial marine specifications from SeaCoat TECHNOLOGY, LLC or your authorized representative.

Substrate and weather Conditions :

Remove previous coatings and the surface should be dry and free of contaminants. Refer to new construction or maintenance specifications for details. The substrate temperature and ambient temperature must be at least 40º F (4.5º C) and rising, and at a minimum must remain 5º F above the dew point. Humidity should be lower than 90%.

Safety Precautions:

This product is sold for and intended for use by professional applicators. It is not for residential use and must be kept out of the hands of children. This product contains some hazardous ingredients and should be used with caution. Refer to MSDS for proper industrial hygiene procedures consistent with OSHA regulations. Always use protective goggles, gloves clothing and or respiratory equipment.

Disclaimer

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