



## PRODUCT DATA SHEET

# FlexCoat® - 1200

### Modified Vinyl Anti-Fouling Paint

#### GENERIC TYPE:

Single pack, Vinyl-rosin based cuprous oxide contact type A/F.

**DESCRIPTION:** *FlexCoat-1200* is the standard anti-fouling used by U.S. Navy for the protection of a wide variety of its surface craft, from the keel to the light load line. *FlexCoat-1200* is a MIL-P-15931C, Type I Class I, Formula 121 Red and Black Vinyl Anti-Fouling Paint. Anti-fouling characteristics will not be affected by prolonged or repeated atmospheric exposure. *FlexCoat-1200* is a Tin free ablative antifouling based on a high performance polymeric resin system. **For use as Anti-fouling for prevention of massive growth on ships, barges, tugboats, and offshore equipment.**

#### FEATURES:

- Quick dry to touch, recoat and cure.
- High resistance to abrasion.
- Extremely High Poison Content.
- Extremely smooth surface.
- Offers extended protection against wide variety of anti-fouling organisms.
- Protects against atmospheric corrosion

#### RECOMMENDED USES:

**FlexCoat-1200 Anti-Fouling paint** is developed specifically for use as a protection from the keel to the Light Load Line. *FlexCoat-1200* is intended for use on underwater ship bottom surfaces. *FlexCoat-1200* provides protection against a wide range of grass and shell fouling where the use of tin-based biocides is precluded. Specifications utilizing this product may be varied to provide the most cost effective system to meet operating conditions and service requirements. Compatible with an extensive range of existing bottom systems.

#### NOT RECOMMENDED FOR:

Application over improperly prepared or primed surface.

**ORDER INFORMATION:** Prices may be obtained from **SanyChem Sales Representative** or main Office.

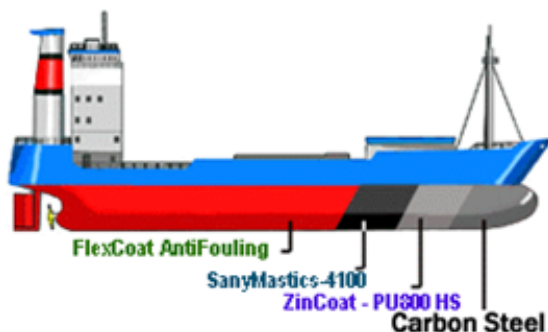
#### APPROXIMATE SHIPPING WEIGHT :

**Freight Classification:** Paint, Combustible Liquid UN1263, PG III

Packaging:	1 gallon (3.785L)	5 gallons (18.925L)
<b>FlexCoat-1200</b> (Red)	17.0 lbs. (7.7 kg.)	82.5 lbs. (37.4 kg.)
<b>FlexCoat-1200</b> (Black)	15.5 lbs. (7.0 kg.)	76.1 lbs. (34.5 kg.)
<b>SolvenSany # 258</b> Thinner	7.9 lbs. (3.6 kg.)	39.5 lbs. (18.0 kg.)

#### FLASH POINT (Pensky/Martens Closed Cup) :

	Flash Point
<b>FlexCoat-1200</b>	24°C
<b>SolvenSany # 258</b> Thinner	18 °C



#### SPECIFICATION DATA

- **Solids Content By Volume:** **FlexCoat-1200 Red** 42% ± 2%  
**FlexCoat-1200 Black** 38% ± 2%

#### • Theoretical Coverage Rate per Gallon: \*

<b>FlexCoat-1200</b> (Red)	4.2 m <sup>2</sup> /l at 100 microns DFT.
<b>FlexCoat-1200</b> (Black)	3.8 m <sup>2</sup> /l at 100 microns DFT.

- Mixing and application losses will vary and must be taken into consideration when estimating job requirements.

#### • Volatile Organic Content (VOC) as supplied \* :

	Grams/Lit.
<b>FlexCoat-1200</b> (Red)	476 g/l
<b>FlexCoat-1200</b> (Black)	508 g/l

Thinned 10% with **SolvenSany # 258Thinner**

<b>FlexCoat-1200</b> (Red)	510 g/l
<b>FlexCoat-1200</b> (Black)	540 g/l

- \* May vary with color

- **Temperature Resistance** ( Non-Immersion )
 

Continuous	:	160 °F (71 °C)
Non-Continuous	:	190 °F (88 °C)

#### • Recommended Dry Film Thickness Per Coat :

2 mils (50 microns)  
Two coat recommended for 4 mils (100 microns) DFT

- **Color Standard in :** Red and Black
- **Gloss** Flat
- **Shelf Life :** 24 months when stored at 75 °F (25 °C)
- **Storage Conditions:** Store indoors.  
Temp.: 40 - 110 °F (4 -43 °C)  
Humidity: 0 - 100%

**Substrates:** Not recommended except after application of a test patch for routine maintenance of sandswept conventional hull coatings due to the possibility of softening or lifting of underlying coatings. May be applied over vinyls, epoxies, Chlorinated rubbers and other as recommended. Please consult the appropriate system guide, the particular job specification or your **SanyChem Coatings' Industrial Coatings Specialist** for proper systems using this product.

**NOTE:** A test patch is recommended to assure adhesion of **FlexCoat-1200** over others coatings or the adhesion of topcoats to **FlexCoat-1200**.

**Topcoat Required:** A second coat is normally recommended to provide a longer service life.

January 2001 replaces April 1998

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# APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

## Substrates & Surface Preparation

### General:

Remove any oil or grease with clean rags soaked in **SolvenSany # 252 Thinner** in accordance with SSPC-SP-1-82 or power wash with **SanyChem MetalCleaner # 100** diluted in water and rinse.

All surfaces must be sound, dry, clean, and free of oil, grease, dirt, mildew, form release agents, curing compounds, efflorescence, loose and flaking paint and other foreign substances.

### Steel:

The anti-corrosive coating selected should be allowed to cure for its allotted time prior to overcoating. It should be free of surface contamination and moisture to ensure adhesion. Touch-up all damage and bare areas with the recommended anti-corrosive system prior to the application of **FlexCoat-1200** Anti-Fouling paint.

**Wood:** May be applied directly on bare wood, preferably after 10% thinning.

### Mixing:

This coating contains a high level of cuprous oxide. As a result there is a tendency for settling to occur. It is necessary to thoroughly power mix before using. Before using, check the bottom and sides of the can to make sure that all the pigment has been mixed in. When mixing with a power mixer, pour off half of the liquid from the can into another can, and thoroughly mix in all settled pigment. Then remix the two parts together. Stir occasionally during use to redistribute the cuprous oxide pigment.

### Thinning:

Normally not necessary, but may be thinned up to 10% by volume with **SolvenSany # 258 Thinner**.

## Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. The following equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.



### Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. General guidelines:

### Spray Application

#### Spray

Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later. May be applied by hot spray (Temperature not to exceed 95 °F (35 °C))

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

#### Conventional Spray

Use a 3/8" minimum I.D. material hose. Hold gun approximately 8-10 inches from the surface and at a right angle to the surface.

Mfr. & Gun	Fluid Tip	Air Cap.
DeVilbiss P-MBC or JGA	E	704
Binks #18 or #62 I.D.	66	63 PE
	Approx. 0.070" I.D.	

#### Airless Spray

Use 3/8" minimum I.D. material hose. Hold gun approximately 12-14 inches from the surfaces and at a right angle to the surface.

Mfr. & Gun	Pump
DeVilbiss JGN-502	QFA-514 or QFA-519
Binks Model 700	Mercury 5C or B8-36 37:1
Graco 205-591	President 30:1 or Bulldog 30:1

Use a 0.017" - 0.021" tip with 2000 psi.

Teflon packings are recommended and available from the pump manufacturer.

## Contact



For information and Prices, Please Call a SANYCHEM Local Sales Representative.

## Phones:



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**DRYING TIMES :** These times are based on a 40 micron dry film thickness. Higher film thickness, cooler temperatures, or insufficient ventilation will lengthen cure time.

Surface Temp.	Dry to Touch	Dry to Recoat	Cure Before * Immersion
21 °C	15 min.	1 hour	24 hrs min.** 7 days max.

\* Based on 75 microns dry film thickness

\*\* Minimum time for previously coated surfaces. For newly primed surfaces, allow 72 hours minimum cure before immersion.

## APPLICATION CONDITIONS

	Material	Surfaces	Ambient	Humidity
Normal	60 – 90 °F (16 – 32 °C)	65 – 85 °F (18 – 29 °C)	55 – 100 °F (13 – 38 °C)	10 – 85 %
Minimum	45 °F ( 7 °C )	35 °F ( 2 °C )	40 °F ( 4 °C )	0 %
Maximum	100 °F ( 38 °C )	150 °F ( 66 °C )	120 °F ( 49 °C )	95 %

Do not apply when the surface temperature is less than 5 °F or 3 °C above the dew point.



### Brush & Roller

Spray application is recommended. However roller application is acceptable if care is taken to apply uniform coat. Brushing is difficult and should only be used on otherwise inaccessible areas.

### Cleanup & Safety

#### Cleanup

Use **SolvenSany #252**. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

#### Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

#### Ventilation

When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

### Caution



This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

**FlexCoat-1200** ANTIFOULING CONTAINS CUPROUS OXIDE. THIS MATERIAL IS POISONOUS IF INHALED OR TAKEN ORALLY. AVOID BREATHING VAPOURS OR CONTACT WITH MOUTH AND THROAT. CONSULT THE CURRENT MSDS FOR SPECIFIC SAFETY HAZARDS AND PRECAUTIONS.

**FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 1/2001**



## Internet:

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