C-Flex® 30

MARINE/OFFSHORE COATINGS product data

Selection & Specification Data

Generic Type
Tin-free, semi-ablative antifouling

Description
Antifouling is used where organo-tin based products are prohibited and designed for commercial applications. This co-biocide, copper-based antifouling is ideal for vessels and barges subject to medium to heavy-duty service. Functions by an engineered binder matrix resulting in a controlled and effective release of biocide during operation.

Features
- Self-polishing mechanism inhibits the attachment of fouling organisms
- Ideal for high turbulence areas and boot toppings
- Tough binder resists abrasive and mechanical damage
- Controls common types of fouling for periods up to 36 months
- Very good static exposure performance
- Indefinite maximum recoat interval
- Compatible with most suitably prepared copper-based antifouls

Color
Red, Black, and Blue

Finish
Flat

Dry Film Thickness
4 mils (100 microns) per coat

Number of Coats
Two minimum (a third optional coat for even longer service)

Solids Content
By Volume: 46% ± 2%

Theoretical Coverage Rate
737 mil ft^2 (184 ft^2 @ 4 mils)
Allow for loss in mixing, application and rough or porous surfaces.

VOC Values EPA Method 24
As supplied: 3.99 lbs/gal (479 g/l)

These are nominal values and may vary with color.

Substrates & Surface Preparation

General
Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

Steel
Steel must be primed with appropriate primer as recommended for the application.

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Application Equipment

Spray Application (General)
The following spray equipment has been found suitable and is available from manufacturers. Prior to use, flush all equipment with Thinner #2.

Conventional Spray
Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.070" I.D. fluid tip and appropriate air cap.

Airless Spray

Pump Ratio:	30:1 (min.)
GPM Output:	3.0 (min.)
Material Hose:	3/8" I.D. (min.)
Tip Size:	.015-.021"
Output PSI:	1700-2100

PTFE packings are recommended and available from the pump manufacturer.

Brush or Roller
Spray application is recommended. However, application by roller is acceptable. Use a short nap mohair roller. Avoid rerolling. Take care to apply uniform coats.

Mixing & Thinning

Mixing
This product contains cuprous oxide. As a result, there is a tendency for settling to occur. It is necessary to thoroughly power mix before using. Check the bottom and sides of the can to ensure all the pigment has been mixed in. It is recommended to pour off half the liquid into a second container and thoroughly mix in any settled pigments. Then remix the two parts together again. Stir occasionally during use to redistribute any settling that may occur during application.

Thinning
Normally not required. May be thinned up to 10% with Thinner 10.

Pot Life
Indefinite

Cleanup & Safety

Cleanup
Use Thinner #2.

Safety
Read and follow all caution statements on this product data sheet and on the MSDS for this product.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	60°-85°F (16°-29°C)	60°-85°F (16°-29°C)	60°-85°F (16°-29°C)	35-85%
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	90°F (32°C)	90°F (32°C)	90°F (32°C)	95%

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Special thinning and application techniques may be required above or below normal application conditions.

Special Note: Antifoulants are typically applied over epoxy anti-corrosive coatings. The optimum time to topcoat with an antifoulant is when the epoxy is "touch-tacky". If the touch-tacky time has been exceeded you can generally reprime/refresh the first coat of epoxy with a fresh coat of itself (check specific data sheet). The longer the epoxy has to cure, particularly in sunlight exposure or elevated temps, the higher risk of inadequate adhesion. **If those maximum recoat times have been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats. Contact your local Carboline Marine Representative for assistance/guidance.**

Curing Schedule

Surface Temp. & 40-60% Relative Humidity	Dry to Recoat	Cure for Service* (Launch)
40°F (4°C)	18 hours	24 hours
50°F (10°C)	12 hours	18 hours
70°F (21°C)	6 hours	8 hours
90°F (32°C)	3 hours	6 hours

These times are based on a 4.0 mil (100 micron) dry film thickness and 40-60% relative humidity. Higher film thicknesses, insufficient ventilation, high humidity or cooler temperatures will require longer cure times. The above times are minimum cure times.
*Cure for service is after the final coat is applied.

Packaging, Handling & Storage

Shipping Weight (Approximate)
5's
92 lbs

Flash Point (Setaflash)
92°F (33°C)

Storage (General)
Store Indoors.

Storage Temperature & Humidity
40° -100°F (4°-38°C)
0-90% Relative Humidity

Shelf Life
12 months at 75°F (24°C)

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