

# Marine Paint Manual

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Issue Date: April 2013 (ES)

## BIOFLEX A/F

A special synthetic resin antifouling paint that contains cuprous oxide as the main biocide.

Suitable Use	Antifouling
Type	Cuprous oxide / Special synthetic resin (Tin-free / Conventional)
Color	Red oxide
Gloss	Semi-gloss
Volume Solids	54 ± 2% (ISO3233:1998)
Typical Dry Film Thickness	40 ~ 75 μm
Approx. Wet Film Thickness	74 ~ 139 μm
Theoretical Coverage	13.50 m <sup>2</sup> /L (40 μm)
Drying Time	Surface Dry    1 hour (5 ) 30 minutes (20 ) 20 minutes (30 ) Dry Hard        4 hours (5 ) 2 hours (20 ) 1 <sup>1</sup> / <sub>3</sub> hours (30 )
Interval before Overcoating ( by self )	Min.            6 hours (5 ) 3 hours (20 ) 1 <sup>1</sup> / <sub>2</sub> hours (30 ) Max.            — (5 ) — (20 ) — (30 )
Interval before Immersion ( 40 μm )	Min.            10 hours (5 ) 6 hours (20 ) 4 hours (30 )
Thinner	NIPPON MARINE THINNER 200 ( 0 ~ 5%, by weight )
Application Method	Airless Spray    Tip range        0.48 ~ 0.53 mm Fan angle        55 ~ 69° Output pressure 100 ~ 150 kg / cm <sup>2</sup> Brush / Roller    For touching up small areas only
Typical Package	20 L Package may vary from country to country.
Japan Local Brand	BIOFLEX A/F
Flash Point	24
Surface Preparation	All surfaces to be coated should be clean, dry and free from contamination. High pressure fresh water wash and remove all oil / grease, soluble contaminants and other foreign matters.
Safety	Take precautions to avoid skin and eye contact (i.e. gloves, goggles, face masks, barrier creams etc.) Proper ventilation and protective measures must be provided during applications and drying period to keep solvent vapor concentrations within safe limits. Prior to use, obtain, consult and follow the MSDS for this product concerning health and safety information.

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< Note >

- 1) The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.
- 2) Use NIPPON MARINE THINNER 200 to wash painting appliances, hose and guns before and after use.
- 3) The declaration letter of Tin-free Antifouling Paint would not be issued if mixed with the other antifouling paints product or another chemical products.
- 4) Store the paints in paint store.