

Marine Paint Manual

Reference No. : 12-19
Issue Date: July 2015 (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 ² /L (40 μm)												
Drying Time	<table border="0"> <tr> <td>Surface Dry</td> <td>1 hour (5°C)</td> <td>30 minutes (20°C)</td> <td>20 minutes (30°C)</td> </tr> <tr> <td>Dry Hard</td> <td>4 hours (5°C)</td> <td>2 hours (20°C)</td> <td>1¹/₃ hours (30°C)</td> </tr> </table>	Surface Dry	1 hour (5°C)	30 minutes (20°C)	20 minutes (30°C)	Dry Hard	4 hours (5°C)	2 hours (20°C)	1 ¹ / ₃ hours (30°C)				
Surface Dry	1 hour (5°C)	30 minutes (20°C)	20 minutes (30°C)										
Dry Hard	4 hours (5°C)	2 hours (20°C)	1 ¹ / ₃ hours (30°C)										
Interval before Overcoating (by self)	<table border="0"> <tr> <td>Min.</td> <td>6 hours (5°C)</td> <td>3 hours (20°C)</td> <td>1¹/₂ hours (30°C)</td> </tr> <tr> <td>Max.</td> <td>— (5°C)</td> <td>— (20°C)</td> <td>— (30°C)</td> </tr> </table>	Min.	6 hours (5°C)	3 hours (20°C)	1 ¹ / ₂ hours (30°C)	Max.	— (5°C)	— (20°C)	— (30°C)				
Min.	6 hours (5°C)	3 hours (20°C)	1 ¹ / ₂ hours (30°C)										
Max.	— (5°C)	— (20°C)	— (30°C)										
Interval before Immersion (40 μm)	<table border="0"> <tr> <td>Min.</td> <td>10 hours (5°C)</td> <td>6 hours (20°C)</td> <td>4 hours (30°C)</td> </tr> </table>	Min.	10 hours (5°C)	6 hours (20°C)	4 hours (30°C)								
Min.	10 hours (5°C)	6 hours (20°C)	4 hours (30°C)										
Thinner	NIPPON MARINE THINNER 200 (0 ~ 5%, by weight)												
Application Method	<table border="0"> <tr> <td>Airless Spray</td> <td>Tip range</td> <td>0.48 ~ 0.53 mm</td> </tr> <tr> <td></td> <td>Fan angle</td> <td>55 ~ 69°</td> </tr> <tr> <td></td> <td>Output pressure</td> <td>100 ~ 150 kg / cm²</td> </tr> <tr> <td>Brush / Roller</td> <td colspan="2">For touching up small areas only</td> </tr> </table>	Airless Spray	Tip range	0.48 ~ 0.53 mm		Fan angle	55 ~ 69°		Output pressure	100 ~ 150 kg / cm ²	Brush / Roller	For touching up small areas only	
Airless Spray	Tip range	0.48 ~ 0.53 mm											
	Fan angle	55 ~ 69°											
	Output pressure	100 ~ 150 kg / cm ²											
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 °C												
Surface Preparation	<p>All surfaces to be coated should be clean, dry and free from contamination.</p> <p>High pressure fresh water wash and remove all oil / grease, soluble contaminants and other foreign matters.</p>												
Safety	<p>Take precautions to avoid skin and eye contact (i.e. gloves, goggles, face masks, barrier creams etc.)</p> <p>Proper ventilation and protective measures must be provided during applications and drying period to keep solvent vapor concentrations within safe limits.</p> <p>Prior to use, obtain, consult and follow the SDS for this product concerning health and safety information.</p>												

Marine Paint Manual

BIOFLEX A/F

Issue Date: July 2015 (ES)

<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.