

MARINE STAR A

(MS A)

PRODUCT DESCRIPTION

MARINE STAR A is a tin free erodible antifouling paint with self-polishing action in service and good protection against marine organisms.

The specific vehicle composition provides a unique hydration mechanism during operation, resulting excellent antifouling performance.

PRODUCT INFORMATION

Type	Anti-fouling paint				
Recommended Use	Anti-fouling paint on aluminum ship's bottom				
Type of binder	Special synthetic resin				
Color	White, As specified				
Flash Point	22 °C				
Solids by Volume	55% ± 2 (Test Method : ISO-3233)				
VOC	450 g/l (Korea Clean Air Conservation Act)				
Coverage(Theoretical)	5.49 m ² /l [0.182 l/m ²] at D.F.T 100μm				
Wet Film Thickness	182 μm				
Dry Film Thickness	100 μm				
Drying Time (at D.F.T. 100μm)	Temperature	5°C	10°C	20°C	30°C
	Surface Dry	3 hrs.	2 hrs.	1 hrs.	30 min.
	Hard Dry	12 hrs.	8 hrs.	5 hrs.	4 hrs.
Painting Interval (at D.F.T. 100μm)	Minimum	12 hrs.	8 hrs.	5 hrs.	4 hrs.
	Maximum	-	-	-	-
Dry to launch (at D.F.T. 100μm)	Minimum	24 hrs.	18 hrs.	12 hrs.	10 hrs.
	Maximum	-	-	-	-
Thinner	RAVAX THINNER, CR/ACRI THINNER A				
Method of Application	Airless spray, Brush, Roller				
Condition of Application	Temperature	: Minimum - 5 °C			
	Humidity	: Maximum 85 % R.H.			
	For Airless spray ;				
	Tip No.	: GRACO 619, 625			
	Paint output pressure	: 11.7 – 14.7 MPa			
Viscosity	: 90 sec.(Ford Cup No.4)				
Preferable Preceding Coats	SILVAX SQ-K, SEA GRANDPRIX Series, SEAFLO NEO Series, etc.				
Preferable Subsequent Coats	-				
Packaging	One pack product				

TECHNICAL DATA (at 100 μ m)

Item		Temp (°C)									
		-5	0	5	10	15	20	25	30	35	40
Set to touch		8H	6H	3H	2hr	1.5H	1H	45m	30m	30m	30m
Dry to recoat	Min.	24H	18H	12H	8H	6.5H	5H	4.5H	4H	3.5H	3H
	Max.	-	-	-	-	-	-	-	-	-	-
Dry to hard		24H	18H	12H	8H	6.5H	5H	4.5H	4H	3.5H	3H
Dry to immerse	Body	48H	36H	24H	18H	15H	12H	11H	10H	9H	8H
	Touch-up	48H	36H	24H	18H	15H	12H	11H	10H	9H	8H
Dry to Touch-up		24H	18H	12H	8H	6.5H	5H	4.5H	4H	3.5H	3H
Pot life		-	-	-	-	-	-	-	-	-	-
Shelf life (M)		12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
Max. heat resistance		60°C (Non-continuous)									

Abbreviation ; Y : Year, M : Month, D : Day, H : Hour, m : Minute

RECOMMENDABLE SURFACE PREPARATION

All surfaces to be free from various contaminants (oil, grease, dust, spray dust and etc.) and keep surfaces dry. Kindly consult CSP sales office for specific information.

SAFETY PRECAUTIONS

In order to ensure safe use of our product, please be sure to follow the safety precautions indicated on the SDS and the paint container. If you need further explanation, do not hesitate to consult our personnel or our local distributors before buying, opening, using, or disposing the product. Since product contains flammable materials, keep away from sparks and open flame. No smoking should be permitted in the area on painting.

Wear an appropriate protector (eye and face protection, protective clothing, barrier creams, etc) when mixing, applying, or drying the paint. If products come into contact with the skin, wash thoroughly with warm water and soap or suitable cleaner. If the eyes is contaminated, irrigate with water and seek medical advice immediately.

DISCLAIMER

The information, including data, specifications, directions and recommendations, contained in this Data Sheet describes the experiment results under controlled or specially defined conditions and we do not guarantee that the Products, when used under the actual conditions of any intended use, will produce the same results. The performance of the Products in their actual use is affected by various factors, and the User must judge whether the Products are suitable for specific uses. We do not guarantee the performance of the Products under any specific operation environment other than the performance of the Products under the conditions described in this Data Sheet.

The content of this Data Sheet, which is intended for facilitation of the User's understanding and convenience of use of the Products, is subject to change at any time without prior notice. We use our best efforts to reflect the latest and most accurate information in this Data Sheet, but we will not bear any liability whatsoever relating thereto. The User must confirm that the Data Sheet is the latest version prior to using the Products.

We do not guarantee the performance or safety of the Products when used for a purpose or use other than what is described herein. Nor will we be liable for any explanation or guarantee provided by any distributor or sales agent with respect to the Products, other than what is described in this Data Sheet.

Furthermore, each of the Products described herein is composed of various chemical substances, some of which may contain toxic and/or harmful ingredients and may cause harmful results as a result of misuse or overuse of the Products. For specific causes of risk, conditions of use, harmfulness, etc. of each of the Products, please carefully read, prior to use of the Products, the MSDS (Material Safety Data Sheet) inserted in each of the Products. We will not be liable for any accident that may be caused in violation thereof.