

# SEA GRANDPRIX 660 HS

(SGP 660 HS)

## PRODUCT DESCRIPTION

**SEA GRANDPRIX 660 HS** is a tin free antifouling paint based on advanced fusion technology with hydrolysis compound and unique release controller. The specific vehicle composition provides long protection against marine organisms.

## PRODUCT INFORMATION

Type	Advanced fusion type self polishing antifouling paint				
Recommended Use	Antifouling paint for underwater hull of steel ships in worldwide service and with extended dry-docking interval				
Type of binder	Special synthetic resin				
Color	Brown R, Light Brown R, As specified*)				
Flash Point	23.0 ℃				
Solids by Volume	65% ± 2 (Test Method : ISO-3233)				
VOC	348 g/l (EPA Method24), 421 g/l (Korea Clean Air Conservation Act)				
Coverage(Theoretical)	6.50 m <sup>2</sup> /ℓ [0.154 ℓ/m <sup>2</sup> ] at D.F.T 100μm				
Wet Film Thickness	115 – 254 μm				
Dry Film Thickness	75 – 165 μm				
Drying Time (at D.F.T. 100μm)	Temperature	5℃	10℃	20℃	30℃
	Surface Dry	3 hrs.	2 hrs.	1 hr.	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	18 hrs.	12 hrs.	10 hrs.	9 hrs.
	Maximum	-	-	-	-
Thinner	RAVAX THINNER, CR/ACRI THINNER A				
Method of Application	Airless spray, Brush, Roller				
Condition of Application	Temperature	: Minimum		-5 ℃	
	Humidity	: Maximum		85 % R.H.	
	For Airless spray ;				
	Tip No.	: GRACO 621 ~ 735			
	Paint output pressure	: 11.7 - 14.7 MPa			
Preferable Preceding Coats	Viscosity	: 90 sec. (Ford Cup #4)			
	BANNOH 1500 R Z, SILVAX SQ-K, CMP AC-10, etc.				
Preferable Subsequent Coats	-				
Packaging	One pack product				

\*) if you want other color, kindly consult CSP sales office.

**TECHNICAL DATA (at 100 $\mu$ m)**

Temp (°C)		-5	0	5	10	15	20	25	30	35	40
Item											
Set to touch		8H	5H	3H	2H	1.5H	1H	45m	30m	30m	30m
Dry to recoat	Min.	22H	16H	12H	8H	6H	5H	4.5H	4H	3.5H	3H
	Max.	-	-	-	-	-	-	-	-	-	-
Dry to hard		22H	16H	12H	8H	6H	5H	4.5H	4H	3.5H	3H
Dry to immerse*)	Body	42H	30H	18H	12H	11H	10H	9H	9H	8.5H	8H
	Touch-up	36H	24H	14H	12H	10H	8H	8H	7.5H	7H	6H
Dry to Touch-up		22H	16H	12H	8H	6H	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

**Notes :**

- \*) If applied anti-fouling coat is higher than above the recommended DFT or number of coat is two or more, the dry time to be immersed is necessary to be longer for physical resistance, flooding and sailing.
- For the expectations of performance for this product in static conditions, it is necessary to consider location conditions such as fouling activity, water temperatures, and pollution level. For more information please consult a CMP office or representative.
- Slight color variation can be expected after immersion and climatic exposure.

**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.