

# SEA GRANDPRIX 1000 L

(SGP 1000 L)

## PRODUCT DESCRIPTION

**SEA GRANDPRIX 1000 L** is a tin free self polishing antifouling paint based on the silyl polymer technology with highly hydrolysis activity.

Excellent antifouling effect is derived from the highly active polymer which ensures maximum effectiveness and leaching of the biocides.

Activation at the surface is maintained by control of hydrolysis thus providing long term antifouling protection commensurate with applied film thickness.

## PRODUCT INFORMATION

|   |   |                   |           |         |         |
|---|---|-------------------|-----------|---------|---------|
| <b>Type</b>                                   | Tin free self polishing antifouling paint   |                   |           |         |         |
| <b>Recommended Use</b>                        | Antifouling paint on steel ship's bottom for world wide service with extended dry-docking interval. |                   |           |         |         |
| <b>Type of binder</b>                         | Special synthetic resin   |                   |           |         |         |
| <b>Color</b>                                  | Brown H, Light Brown H  |                   |           |         |         |
| <b>Flash Point</b>                            | 23.2 °C   |                   |           |         |         |
| <b>Solids by Volume</b>                       | 56% ± 2 (Test Method : ISO-3233)  |                   |           |         |         |
| <b>VOC</b>                                    | 408 g/l (EPA Method24), 438 g/l (Korea Clean Air Conservation Act)                                  |                   |           |         |         |
| <b>Coverage(Theoretical)</b>                  | 5.60 m <sup>2</sup> /l [0.179 l/m <sup>2</sup> ] at D.F.T 100μm                                     |                   |           |         |         |
| <b>Wet Film Thickness</b>                     | 89 – 295 μm   |                   |           |         |         |
| <b>Dry Film Thickness</b>                     | 50 – 165 μm   |                   |           |         |         |
| <b>Drying Time</b><br>(at D.F.T. 100μm)       | Temperature   | 5°C               | 10°C      | 20°C    | 30°C    |
|   | Surface Dry   | 3 hrs.            | 2 hrs.    | 1 hr.   | 30 min. |
|   | Hard Dry  | 12 hrs.           | 8 hrs.    | 5 hrs.  | 4 hrs.  |
| <b>Painting Interval</b><br>(at D.F.T. 100μm) | Minimum   | 12 hrs.           | 8 hrs.    | 5 hrs.  | 4 hrs.  |
|   | Maximum   | -                 | -         | -       | -       |
| <b>Dry to Launch</b><br>(at D.F.T. 100μm)     | Minimum   | 18 hrs.           | 12 hrs.   | 10 hrs. | 9 hrs.  |
|   | Maximum   | -                 | -         | -       | -       |
| <b>Thinner</b>                                | RAVAX THINNER, CR/ACRI THINNER A  |                   |           |         |         |
| <b>Method of Application</b>                  | Airless spray, Brush, Roller  |                   |           |         |         |
| <b>Condition of Application</b>               | Temperature   | : Minimum         | -5 °C     |         |         |
|   | Humidity  | : Maximum         | 85 % R.H. |         |         |
|   | For Airless spray ;   |                   |           |         |         |
|   | Tip No.   | : GRACO 621 ~ 723 |           |         |         |
|   | Paint output pressure   | : 11.7 – 14.7 MPa |           |         |         |
| Viscosity                                     | : 1.5 - 2.5 Pa·s  |                   |           |         |         |
| <b>Preferable Preceding Coats</b>             | BANNOH 1500 R Z, SILVAX SQ-K, CMP AC-10, etc.   |                   |           |         |         |
| <b>Preferable Subsequent Coats</b>            | -   |                   |           |         |         |
| <b>Packaging</b>                              | One pack product  |                   |           |         |         |

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

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

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The information given in this sheet is effective at the date shown above and subject to revision from time to time without notice.