

# SEATENDER 20

## Product description:

SEATENDER 20 is a tin-free antifouling paint with polishing action in service and long protection against marine organisms. The specific vehicle composition provides long lasting antifouling performance and polishing action.

IMO Anti-fouling Systems Convention compliant (AFS/CONF/26 & IMO MEP.331(76)).

## TECHNICAL DATA

<b>Type:</b>	Tin free self polishing antifouling paint.		
<b>Recommended use:</b>	Antifouling paint for coastal steel ship's bottom. This product is for professional use only.		
<b>Surface Preparation:</b>	All surface contamination such as dirt, grease, oil, etc. must be removed. To be used over suitable existing antifouling and primers. Please consult CMP representative for compatibility. Close high pressure fresh water washing to 250 bar (3500 psi) to remove contamination and any leached layers from existing antifouling.		
<b>Physical Data:</b>	Colour:	Brown, Light brown, Black, Blue	
	Flash point:	37°C	
	Volume solids %:	61 ±2	
	VOC (Theoretical):	346 g/l	
<b>Application Details:</b>	Thinner:	CR/ACRI THINNER A	
	Min.Temperature:	-5 °C	
	Surface temperature:	Dew point + minimum 3°C	
	Max. humidity:	85% R.H.	
	Application Data:	Airless spray, brush, roller*	
<b>For airless spray:</b>	Tip No.:	Graco 621 - 735	
	Paint output pressure:	11.7 - 14.7 MPa	
	Thinning:	0 - 7 % (by volume)	
<b>Film thickness and spreading rate:</b>		Min.	Max.
	Film Thickness, wet:	123	246 μm
	Film Thickness, dry:	75	150 μm
	Spreading Rate: (theoretical)	8,1	4,1 m <sup>2</sup> /l
<b>Preferable preceding coating:</b>	SILVAX SQ-K, CMP AC, BANNOH 1500 R Z.		
<b>Preferable subsequent coating:</b>	-		
<b>Packing:</b>	One Pack Product		

Notes: On immersion, SEATENDER 20, may exhibit a slight colour change.

For the expectations of performance from this antifouling product in static conditions: It is necessary to consider parameters such as trading pattern and the environmental conditions i.e., traditional level of fouling activity, pollution levels and water temperatures at static locations.

\*In case of brush or roller application, more layers will be required to achieve the specified film thickness.

Below 10°C, additional thinning may be required to obtain the proper application viscosity but too excessive thinning results in reduced sag resistance and paint film property.

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Temperature	Drying time (at DFT 100 µ)	Overcoating interval (at DFT 100 µ)	Induction time	Pot life	Dry to launch	Remarks
-5 °C	Surface dry: 8 hours Hard dry 22 hours	Min.: 22 hours Max.: None	-	-	48 hours	-
0 °C	Surface dry: 5 hours Hard dry 16 hours	Min.: 16 hours Max.: None	-	-	36 hours	-
5 °C	Surface dry: 3 hours Hard dry 12 hours	Min.: 12 hours Max.: None	-	-	24 hours	-
10 °C	Surface dry: 2 hours Hard dry 8 hours	Min.: 8 hours Max.: None	-	-	18 hours	-
20 °C	Surface dry: 1 hour Hard dry 5 hours	Min.: 5 hours Max.: None	-	-	12 hours	-
30 °C	Surface dry: 30 min Hard dry 4 hours	Min.: 4 hours Max.: None	-	-	10 hours	-

Note: Drying times and overcoating intervals will increase with increasing film thickness applied.  
Before re-coating, always check that the existing paint film is 'through' dry.

**Safety information:** If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist and vapours.
- If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

<b>Definitions:</b>	Tolerances:	The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances.
	Spreading Rate:	The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc.
	Volume Solids:	The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697.
	Overcoating Intervals:	The intervals given assume preparation consistent with good painting
	Hard dry:	The time taken until the product can be walked on without damaging it.
		Time taken until full mechanical strength is obtained is longer.
	V.O.C.:	Theoretical quantity of volatile organic compounds in g/l.

**Disclaimer:** Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

The Inspector will undertake to the best of their ability, to carry out assistance during application of the products delivered by Chugoku, by only rendering advice in connection with the application at site. The Inspector undertakes to carry out the project in a conscientious manner, but Chugoku and/or the Inspector will not accept any kind of liability, direct or indirect, if the project does not give the results expected. Under all circumstances, the Buyer remains responsible for the execution of the project. Any advice and/or assistance rendered by the Inspector will be subject to such (final) responsibility of the buyer, and moreover subject to the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. Even when damages or delays have been caused by faults or negligence on the side of Chugoku and/or the Inspector, such will not result in any liability whatsoever of Chugoku or the Inspector. Liability of both Chugoku or the Inspector for any consequential damages is explicitly excluded.

Some products have been specially modified to adapt to specific European requirements with regard to European-, national- and local laws and regulations or with regards to specific European use requirements. As a result some physical properties in a TDS may differ from those given in the original Japanese TDS.