

## IriSea900™

### General Description

IriSea900™ is a tin-free polishing antifouling paint that formulated by specific polymers with a combination of biocides to protect the underwater zone of vessels and marine structures against biofouling. This product is made by self-polishing technology that allows controlled releasing of the biocides during service time. IriSea900™ can be used in coastal and tropical waters. This product is free of tin compounds and complies with IMO Antifouling System Convention compliant (AFS/CONF/26). IriSea900™ can be applied on IRIS® anticorrosive and old antifouling systems.

### Product Technical Information

• Solids by volume	50 ±1 %
• Density	1.60 ±0.05 Kg /Lit
• Flashpoint	>25°C
• Colors/Finish	Red Brown, Dark Brown /Matt
• Mixing ratio	Single pack
• Suitable Thinner/Cleaner	IriThin22

### Drying & Recoating Times

Temperature	To touch	Hard dry	To recoat		Dry for undocking (Minimum)
			Minimum	Maximum	
@ 10°C	3 hours	8 hours	10 hours	Indefinite	16 hours
@ 23°C	1 hour	6 hours	8 hours	Indefinite	12 hours
@ 30°C	30 minutes	4 hours	6 hours	Indefinite	10 hours
@ 40°C	20 minutes	2 hours	4 hours	Indefinite	8 hours

**Note:** Drying times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures, not simply air temperatures, higher surface temperatures shorten the maximum recoat window.

The surface should be dry and free from contaminants prior to overcoating. The best inter-coat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure times it may be necessary to roughen the surface to ensure inter-coat adhesion. When in doubt, consult your nearest **Darya Tamin** office.

## Application

- Suitable methods

Air Spray	Airless Spray	Brush/Roller
<ul style="list-style-type: none"> <li>• Not Recommended</li> </ul>	<ul style="list-style-type: none"> <li>• Nozzle pressure: 120-180 bar</li> <li>• Nozzle size: 0.41-0.58 mm</li> <li>• Spray angle: 40-80 degrees</li> <li>• The volume of thinner: 0-3 %</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable but small areas only. Multiple coats may be required to achieve specified film thickness.</li> <li>• The volume of thinner: 0-5 %</li> </ul>

- Recommended thickness

	Dry film thickness(µm)	Wet film thickness(µm)	Theoretical spreading rate (m <sup>2</sup> /l)
Acceptable range	75-150	150-300	3.3-6.7
Recommended	100	200	5.0

## Surface Preparation

Surfaces should be free of oil, grease, salt or other contaminants. Remove all wax, silicone, powdery or scaling rust and then clean the surface by fresh water washing. Apply over suitable primer system or clean, intact, prepared existing bottom system.

**Steel:** Prepare the surface according to **Darya Tamin** instruction for the anticorrosive coating to be used, then apply IriSea900™.

**Corroded or damaged areas:** Prepare the surface according to **Darya Tamin** instruction, then use a suitable anticorrosive coating before applying IriSea900™.

**Old antifouling system:** Remove fouling by scraping and sand sweeping. Loose paint should be removed by high-pressure (150-350bar or 2000-5000p.s.i.) freshwater wash. Tightly adhering anticorrosive and antifouling coating may remain. If necessary, apply a suitable anticorrosive coating before applying IriSea900™.

## Application Condition

The temperature of the substrate should be at least 3°C above the dew point of the air. Temperature and relative humidity should be measured in the vicinity of the substrate. The maximum recommended surface temperature is approx. 40°C and relative humidity during application and curing should not exceed 80%. When applying the paint in confined spaces, provide adequate ventilation during application and drying. The temperature of the mixed paint should be at least 10°C.

## Storage, Handling & Shelf Life

Generally, keep the paint containers in dry and cool (5-35 °C) place and away from heat or open flame. Paint containers must be kept tightly closed in the well-ventilated area and handled with care. This product's shelf life @ 23 °C is 12 months.

## Environmental, Health & Safety Note

Read the material safety data sheet (MSDS) of the product before use and pay attention to safety signs attached to the product can. This product is flammable so keep away from heat and open flame.

Avoid skin and eyes by wearing overall, glove, goggles, and a suitable mask. Spillage on the skin should immediately be removed with a suitable cleanser, soap, and water. Eyes should be well flushed with water, and medical attention sought immediately. Don't discard the product on planets, sea, river and drinking water sources.

**Keep out of reach of children.**

## Disclaimer

The information in this document is given to the best of IRIS's knowledge based on professional tests by our experts. However other factors that are affecting the use and application of this product are out of IRIS's responsibility.

**For more information contact with Darya Tamin.**