

IriSea300™

General Description

IriSea300™ is a tin-free conventional antifouling paint that formulated with a combination of biocides to protect the underwater zone of vessels and marine structures against biofouling. This product can be used in moderate to high fouling waters. This product complies with IMO Antifouling System Convention compliant (AFS/CONF/26). IriSea300™ can be applied on IRIS[®] anticorrosive and old antifouling systems.

Product Technical Information

- Solids by volume 48 ±1 %
- Density 1.50 ±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	4 hours	6 hours	10 hours	6 days	16 hours
@ 23°C	1 hour	3 hours	8 hours	5 days	12 hours
@ 30°C	30 minutes	2 hours	6 hours	4 days	8 hours
@ 40°C	20 minutes	1 hour	4 hours	3 days	6 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
• Not Recommended	• Nozzle pressure: 120-180 bar • Nozzle size: 0.41-0.58 mm • Spray angle: 40-80 degrees • The volume of thinner: 0-3 %	• Suitable but small areas only. Multiple coats may be required to achieve specified film thickness. • The volume of thinner: 0-5 %

- **Recommended thickness**

	Dry film thickness(μm)	Wet film thickness(μm)	Theoretical spreading rate (m ² /l)
Acceptable range	60-80	125-165	6.0-8.0
Recommended	75	155	6.4

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 IriSea300™.

Corroded or damaged areas: Prepare surface according to **Darya Tamin** instruction, then use a suitable anticorrosive coating before applying IriSea300™.

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 IriSea300™.

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.