Product Data Sheet
HEMPEL'S COPPER FREE AF 740AM

Description:

HEMPEL'S COPPER FREE AF 740AM is a solvent based, copper and tin free ablative antifouling coating that deters soft and hard fouling.
Contains unique metal free organic biocide technology to comply with IMO ban on coatings containing TBT. Biocides are non-persistent in the environment.
Low VOC to comply with environmental regulations. Qualified to MIL-PRF-24647, Type I, Class 1 and 2, Grade A and B, Application 1

Recommended use:

As an antifouling where a no copper discharge level antifouling is required. This product weighs approximately 2/3 that of traditional copper based antifouling.
It can be used over prepared existing antifouling systems. Acceptable for use on aluminium hulls.

Features:

Tin-free

Availability:

Not included in Group Assortment. Availability subject to confirmation.

PHYSICAL CONSTANTS:

Shade nos./Colors:	58520/Red - 17401/Black
Finish:	Flat
Volume solids, %:	65 ± 1
Theoretical spreading rate:	6.5 m²/liter - 100 microns 260 sq.ft./US gallon - 4 mils
Flash point:	39°C/102°F
Specific gravity:	1.5 kg/liter - 12.5 lbs/US gallon
VOC content:	<340 g/liter - 2.8 lbs/US gallon according to US EPA Method 24
Shelf life:	2 years (25°C/77°F) from time of production

The physical constants stated are nominal data according to approved formulas.

APPLICATION DETAILS:

Application method:	Airless Spray	Brush (touch-up) *(see REMARKS overleaf)*
Thinner (max. vol.):	08630 (5%)	08630 (5%)
Nozzle orifice:	0.019 - 0.021"	
Nozzle pressure:	220 bar [3200 psi] (Airless spray data indicative and subject to adjustment)	
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610	
Indicated film thickness, dry:	100 microns/4 mils	
Indicated film thickness, wet:	150 microns/6 mils	
Recoat interval, min:	16 hours (20°C/68°F) (*see REMARKS overleaf)*	
Recoat interval, max:	None (*see REMARKS overleaf)*	

Safety:

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Hempel Material Safety Data Sheets and follow all local or national safety regulations.

SURFACE PREPARATION:	**Existing antifouling:** Remove possible oil and grease etc. with suitable detergent, followed by high pressure fresh water cleaning for a thorough removal of any possible weak structure of leached antifouling. Allow the surface to dry before coating. **Sealer:** Whether to use a sealer coat/tiecoat or not depends on the type and condition of the existing antifouling.
APPLICATION CONDITIONS:	The surface must be completely clean and dry at the time of application and its temperature must be above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	According to specification.
SUBSEQUENT COAT:	None. At later redocking direct overcoating – after a very proper cleaning and a thorough removal of possible loose outer layer – can as a general rule only take place with itself or similar ablative antifoulings. For other antifoulings, measures of different kinds will be necessary, contact nearest Hempel Office. After the high pressure fresh water cleaning of the old ablative antifouling it is essential that it becomes through dry before painting.
REMARKS:	
Certificates/Approvals:	EPA Registration Number: 577-570.
Film thicknesses / Thinning:	May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating interval. Normal range dry is: 75-150 micron/3-6 mils
Overcoating:	When applying over a recommended epoxy primer, apply within 2 to 4 hours at 77°F and 50% RH. The epoxy should be overcoated when it is tacky, but not hard. **Recommended number of coats:** As per specification depending on existing hull condition, trading pattern, and intended service life. No maximum recoat interval, but after prolonged exposure to polluted atmosphere, remove accumulated contamination by high pressure fresh water cleaning and allow to dry before applying next coat.
Undocking:	Minimum undocking time depends on number of coats applied, film thickness, and the prevailing temperature. Maximum undocking time depends on the exposure conditions, degree of air pollutions, etc. The most important factor is to carry out a thorough high pressure fresh water cleaning after prolonged exposure. Outfitting of up to 6 months followed by such cleaning normally presents no problem. Longer outfitting periods to be evaluated from case to case. The recommended maximum undocking interval relates to vertical bottom only. Flat bottom, which has not be exposed to direct sunlight, will for all normal practical building schedules have a no-maximum value.
Note:	**HEMPEL'S COPPER FREE AF 740AM is for professional use only.**
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