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## MC-AF-5 Hydrolyzable antifouling paint

### Product description

MC-AF-5 is a kind of antifouling paint composed of the toughened resin, colophony, antifouling agent and pigment. Can be applied conveniently and prevent the fouling of marine fouling organisms to hull bottom.

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### Recommended use

As an antifouling for medium and small-sized vessel and port. Prevent marine fouling organisms fouling the ship.

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### Recommended film thickness and spreading rate

Film thickness, dry( $\mu\text{m}$ )	30~80
Film thickness, wet( $\mu\text{m}$ )	56~150
Theoretical spreading rate, $\text{m}^2/\text{l}$	17.7 6.6

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### Basic characteristics

Color	Black/other
Volume Solids, %	$53 \pm 2$
Flash Point, $^{\circ}\text{C}$	$25 \pm 2$
Density (mix), g/ml	$1.80 \pm 0.05$
VOC, g/l	$390 \pm 10$
Gloss	Matt
Water resistance	Excellent
Abrasion resistance	Good
Chemical resistance	Excellent
Flexibility	Good

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### Surface preparation

#### Painted surfaces:

The preceding coating must be dry, free of oil and other contaminants.

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### Condition during application

The temperature of the substrate should be at least  $3^{\circ}\text{C}$  above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

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### Application methods

Spray: airless spray or air spray

Brush, roller coating: recommended for precoating or small area coating only, multiple coats may be required to achieve the specified film thickness.

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### Application data

Thinner/Cleaner	MC-EX-1
Recommended airless spray parameters	
Usage of thinner	0~10% (weight)
Pressure at nozzle	15~25 MPa (about $150 \sim 250 \text{ kg/cm}^2$ ) .
Nozzle tip	0.53~0.68 mm.
Spray angle	$40 \sim 80^{\circ}$
Filter	Check to ensure that filters are clean.

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### Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

Good ventilation (Outdoor exposure or free circulation of air)

Typical film thickness

One coat on top of inert substrate

Substrate temperature, °C	0	10	23
40			
Surface dry, h	12	6	3
1			
Cured, h	36	30	24
16			
Dry to recoat			
Substrate temperature, °C	0	10	20
30			
Minimum, h	36	30	24
16			
Maximum, h	96	96	48
48			

Note: Due to the variation of docking interval, the coat number and the dry film thickness vary. The coat number and the film thickness increases with the repair interval. The recommendations are as follows:

repair	Docking interval, month	new vessel construction	vessel
×2	12	50um×2	50um
×3	18	50um×3	50um

### Typical paint system

The preceding paint: chlorinated rubber paint.

Other systems may be formulated, depending on specific condition.

### Note

Under special condition, the launching time may be prolonged, but no more than two days at summer and four days at winter.

When vessel docks, the antifouling paint can not be directly sprayed in the aged coating. Before coating, wash the slurry and salt with fresh water, remove the marine fouling organisms, rust and loose aged film. Then, seal the aged antifouling coating with tie coat completely. Finally, according to the requirement, two or three coats of antifouling paint can be sprayed.

### Storage

Storage conditions are to keep the containers in a cool, dry, well ventilated space and away from source of heat and ignition.

Containers must be kept tightly closed.

The paint can be stored for at least 12 months at temperature lower than 25°C. If stored longer than 12 months, the paint should be examined to be qualified before use.

### Handling

Handle with care.

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**Packing size**

In 18 liter container or negotiation.

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**Health and safety**

Before and during use of this product, please observe the precautionary notices displayed on the container. Be careful to avoid inhalation and skin contact of paint. Spillage of paint on the skin should immediately be removed with a suitable cleanser, soap and water. Avoid using organic solvent. Eyes should be well flushed with water and then seek medical attention immediately. The product should be used under well-ventilated condition. If using in stagnant condition and narrow place, forced ventilation must be provided, and applicators should take corresponding measures to strengthen personnel protection.

**For detailed information on the health and safety and precautions for use of this product, please consult our company.**

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