



**SHALIMAR
PAINTS**



MARINEGUARD

PROTECTIVE COATINGS

BIPIGARD BROWN, BLACK

High performance cool tar epoxy coatings, which combine the toughness, adhesion and chemical resistance of epoxy resins with excellent sea-water resistance of coal tar/pitch. BIPIGARD is a high build coating which is ideally suited for use on the underwater hull exterior in conjunction with cathodic protection because of its high alkali resistance. BIPIGARD is also suitable for applying in the cargo holds of bulk carriers and interior of tanks to hold crude oil but not refined oil and solvents. It is an extremely durable coating for sea-water ballast tanks. There is a special quality under brand name 'BIPIGARD XL' which is recommended for application over the metallic Zinc based Shop Primers and certain other special uses.

Product Information

Colour	Brown-Dark Brown Black-Black		
Finish	Semiglossy		
Flash Point	Above 20°C		
Mixing Ratio	Base : Accelerator 1 : 1		
Solid Volume	67% approximately		
Recommended dry film thickness	100 - 150 microns per coat		
Corresponding wet film thickness	149 - 224 microns per coat		
Spreading rate	100 Mic.	125 Mic.	150 Mic.
Theoretical	6.7	5.4	4.5
with loss factor 20%	5.4	4.3	3.6
with loss factor 30%	4.7	3.8	3.0
with loss factor 40%	4.0	3.2	2.7
Drying time	Touch dry - 5 - 10 hours Handleable - 24 hours Full curing - 7 - 10 days		
Interval before Overcoating	24 hours minimum, 7 days maximum. (for optimum intercoat adhesion overcoating within 40 hours recommended.)		
Storage life	9 months		

Surface Preparation

STEEL SURFACES:

Degrease and blast clean to Sa 2½ grade minimum. On freshly blasted steel or metallic zinc epoxy primers apply BIPIGARD XL as first coat for best adhesion and corrosion resistance.

Application Details

Method of Application:

Brush / Roller / Spray.

Airless spray recommended for uniform and high film build.

Notes on Airless Spray:

Tip Ranger - 23 - 26 thou.

Total output fluid pressure

2500 - 3000 psi.

(176 - 211 kg/sq. cm.)

Thinner:

MTH 015

Limitations

The finish tends to chalk an exposure to sunlight. This, however, does not affect protective properties of film appreciably.



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