General Guide of Painting Scheme for New Building

1. Hull Coating

a) Ship Bottom

Type of paint	Name of Paint	No of coat	Recommended DFT (µ)
Surface preparation : Blasting to Sa2.5 or equivalent with surface profile of 45 to 75 microns.			
Shop Primer : - Epoxy primer - Epoxy Zinc - Inorganic zinc	 Advance Coat Blastprimer or Advance Coat EPZR SP or Advance Coat IOZ SP	 1 1 1	 25 20 20
Secondary Surface preparation : remove any surface contaminant by solvent cleaning, sanding to at least St3 and high pressure fresh water washing.			
Anti corrosive primer	Advance Coat MP	1	200
Binder coat	Advance Coat AF Sealer	1	50
Tin Free Self Polishing Anti fouling	Advance Coat AF HY	2	150 - 300

b) Boottop

Type of paint	Name of Paint	No of coat	Recommended DFT (µ)
Surface preparation : Blasting to Sa2.5 or equivalent with surface profile of 45 to 75 microns.			
Shop Primer : - Epoxy primer - Epoxy Zinc - Inorganic zinc	 Advance Coat Blastprimer or Advance Coat EPZR SP or Advance Coat IOZ SP	 1 1 1	 25 20 20
Secondary Surface preparation : remove any surface contaminant by solvent cleaning, sanding to at least St3 and high pressure fresh water washing.			
Anti corrosive primer	Advance Coat MP	1	250
Finish	Advance Coat EP Finish	2	100

2) Topside / Deck / Superstructure / Accomodation / Store rooms/ Void

Type of paint	Name of Paint	No of coat	Recommended DFT (µ)
Surface preparation : Blasting to Sa2.5 or equivalent with surface profile of 45 to 75 microns.			
Shop Primer : - Epoxy primer - Epoxy Zinc - Inorganic zinc	 Advance Coat Blastprimer or Advance Coat EPZR SP or Advance Coat IOZ SP	 1 1 1	 25 20 20
Secondary Surface preparation : remove any surface contaminant by solvent cleaning, sanding to at least St3 and high pressure fresh water washing.			
Anti corrosive primer	Advance Coat MP	1	250
Finish	Advance Coat Weatherguard or Advance Coat EP Finish or Advance Coat ACRY Finish or Advance Coat Finish	2	100

3) Cargo Hold

Type of paint	Name of Paint	No of coat	Recommended DFT (µ)
Surface preparation : Blasting to Sa2.5 or equivalent with surface profile of 45 to 75 microns.			
Shop Primer : - Epoxy primer - Epoxy Zinc - Inorganic zinc	 Advance Coat Blastprimer or Advance Coat EPZR SP or Advance Coat IOZ SP	 1 1 1	 25 20 20
Secondary Surface preparation : remove any surface contaminant by solvent cleaning, sanding to at least St3 and high pressure fresh water washing.			
Anti Corrosive Primer	Advance Coat MP	1	250
Anti-abrasive Coating	Advance Coat SH	1	180

4) Tanks

Type of paint	Name of Paint	No of coat	Recommended DFT (μ)
Surface preparation : Blasting to Sa2.5 or equivalent with surface profile of 45 to 75 microns.			
Shop Primer : - Epoxy primer - Epoxy Zinc - Inorganic zinc	 Advance Coat Blastprimer or Advance Coat EPZR SP or Advance Coat IOZ SP	 1 1 1	 25 20 20
Secondary Surface preparation : remove any surface contaminant by solvent cleaning, sanding to at least St3 and high pressure fresh water washing.			
i) Water ballast Tank			
Tar Free Epoxy Coating	Advance Coat NT	2	250-300
ii) Fresh water, Lubricating Oil, Distilled water Tank			
Epoxy Coating	Advance Coat Chemguard	2	220 - 250
iii) Cargo Oil and Product Carrier			
Epoxy Coating	Advance Coat Chemguard or Advacance Coat Phenolguard	2	220 - 250

General Instruction For Maintenance or Repair

The painting system for repair or maintenance should be selected in consideration of existing coating system, ship's age, expected service life and cost.

1) Surface preparation

a) Area of heavy rusting, damaged area and defected paint film
- The surface to be cleaned by spot- blast or power tools treatment to the grade of Sa 2.5 or ST 3.0

b) Area of light damaged or defected paint film
- The surface to be cleaned by sweep blast or light power tool cleaning to remove loose paint film.

c) General area in good condition
- Salt, dirt, oil and other contaminants to be remove by scraper, thinner wiping or cleaning treatment and to be thoroughly washed down with fresh water and dried.

2. Hull Coating

a) Ship Bottom

Existing System	Name of Paint	No of coat	Recommended DFT (μ)
Chlorinated Rubber	Advance Coat AF Sealer Advance Coat AF HB	1 2	50 150 - 300
Vinyl Tar AF	Advance Coat AF Sealer Advance Coat AF HB	1 2	50 150 - 300
Modified Epoxy Self Polishing AF	Advance Coat MP Advance Coat AF Sealer Advance Coat AF HY	(1 T/U) 1 2	150 50 150 - 300

- For actual compatibility of existing system, please consult us for details

2) Boottop

Existing System	Name of Paint	No of coat	Recommended DFT (µ)
Epoxy / Modified Epoxy / Polyurethate	Advance Coat MP Advance Coat Weatherguard or Advance Coat EP Finish or *Advance Coat ACRY Finish or *Advance Coat Finish	(1) 2	100 100

* For one component paint , sealer coat of Advance coat MP is required to seal up existing epoxy/modified epoxy / polyurethane system

2) Topside / Deck / Superstructure / Accomodation / Store rooms/ Void

Existing System	Name of Paint	No of coat	Recommended DFT (µ)
Alkyd / Oleoresinous/ Chlorinated Rubber/ Acrylic / Vinyl	Advance Coat MP Primer Advance Coat ACRY Finish or Advance Coat Finish	1 2	75 100
Epoxy / Modified Epoxy / Polyurethate	Advance Coat MP Advance Coat Weatherguard or Advance Coat EP Finish or *Advance Coat ACRY Finish or *Advance Coat Finish	(1) 2	100 100

* For one component paint , sealer coat of Advance coat MP is required to seal up existing epoxy/modified epoxy / polyurethane system

3) Cargo Hold

Type of paint	Name of Paint	No of coat	Recommended DFT (µ)
Tar Epoxy, Modified Epoxy, Epoxy	Advance Coat MP Advance Coat SH	1(T/U) 1	150 200

4) Tanks

The performance of the coating and a lasting repair is very much depend on the surface preparation condition. For tank repair, it is difficult because of staging and access point. The following is just a general guide and please consult us for more detail.

Existing System	Name of Paint	No of coat	Recommended DFT (μ)
Secondary Surface preparation : Please refer to (1) for more informations.			
i) Water ballast Tank			
Tar Epoxy / modified Epoxy / Epoxy Coating	Advance Coat NT	1 - 2	150-300
ii) Fresh water, Lubricating Oil, Distilled water Tank			
Epoxy Coating	Advance Coat Chemguard	1 - 2	150 - 250
iii) Cargo Oil and Product Carrier			
Epoxy Coating	Advance Coat Chemguard or Advacance Coat Phenolguard	2	220 - 250

* All the information provided here is just for reference and serve as general painting guide for new building and maintenance of the vessels. The suitability of each painting system and the condition of the vessel have to be confirmed by the applicators , owner representatives and paint manufacturers.