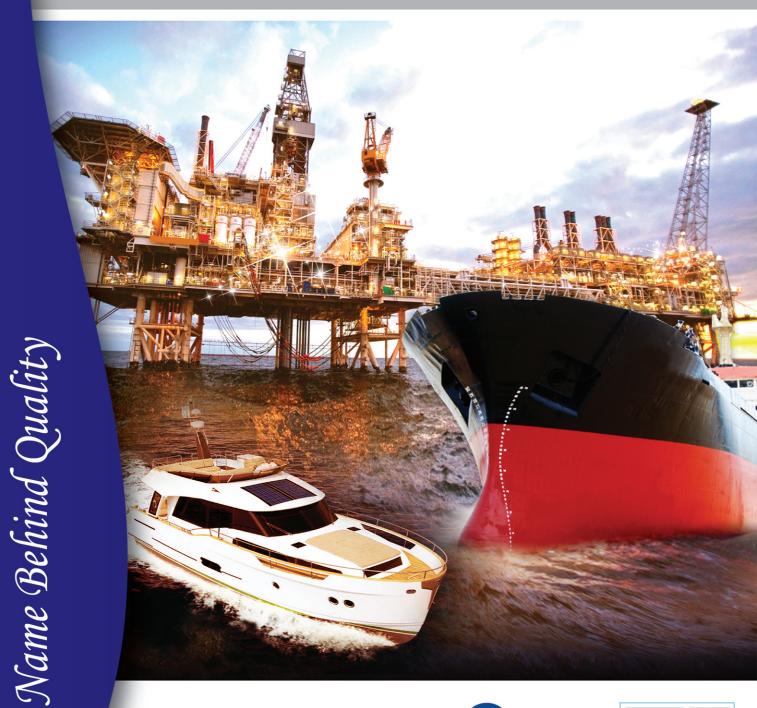


Marine Paints

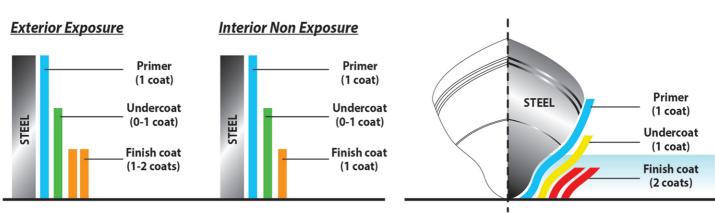






PAINTING SYSTEM GUIDE FOR SHIPS / BOATS

STEEL



Above Water Scheme

Underwater Scheme

	Above Water Structures, Hull, Deck & etc											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
	1.22 (or) 1.24	1	40-50	3.21	1	40-50	A9-000	1~2	35~45			
	91.71	1	75~100	ACY (or) ACM	1	35~45	ACY (or) ACM	1	35~45			
EXTERIOR EXPOSURE	4.06 (or) 4.68	1	75~100	3.43 (or) 3.63	1	40~50	3.43 (or) 3.63	1	40~50			
	4.06 (or) 4.68	1	75~100	-	-	-	4.06 (or) 4.68	1	75~100			
	91.71	1	75~100	AST-490	1	100~ 150	3.43 (or) 3.63	1~2	40~50			
	1.22 (or) 1.24	1	40~50	A91-000	1	35~45	A91-000	1	35~45			
INTERIOR	91.71	1	50~75	4.60	1	40~50	4.60	1	40~50			
NON EXPOSURE	4.06 (or) 4.68	1	75~ 100	-	-	-	4.06 (or) 4.68	1	75~ 100			
	91.71	1	50~75	AST-490	1	75~100	AST-490	1	75~100			

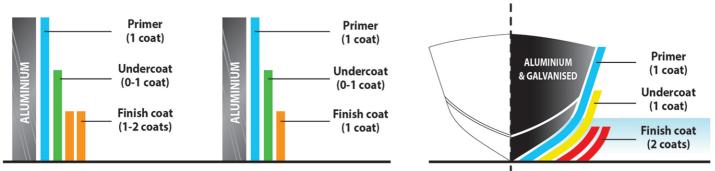
	Underwater Ships / Boats Hull											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
10-18	1.16-v2	1	75~100	2.06	1	75~100	Armada Eco 9	2	100~125			
12-24	4.66-v2	1	100~ 125	2.06	1	75~100	Armada Eco 12	2	100~ 125			
24-36	4.66-v2	1	100~ 150	2.06	1	100~ 150	2.95	2	100~ 150			
24-36	4.66 (or) 4.68	1	100~150	2.06	1	100~ 150	TF-1000	2	100~ 150			
36-42	4.66 (or) 4.68	1	150	HS 2.06	1	150	Armada Eco 36	2	125~150			
48-60	4.66 (or) 4.68	1	150	HS 2.06	1	150	Armada Eco 60	2	125~ 150			
60	4.66 (or) 4.68	1	150	HS 2.06	1	150	SPA-68 / 2.62	2	125~ 150			

* Life times expectations are difficult to give, as it is dependent on many factors beyond our control such as vessel's speed and sailing pattern, sea water quality and temperature. Therefore the above stated antifouling specification should be use for guidance only.

ALUMINIUM & GALVANISED

Exterior Exposure

Interior Non Exposure

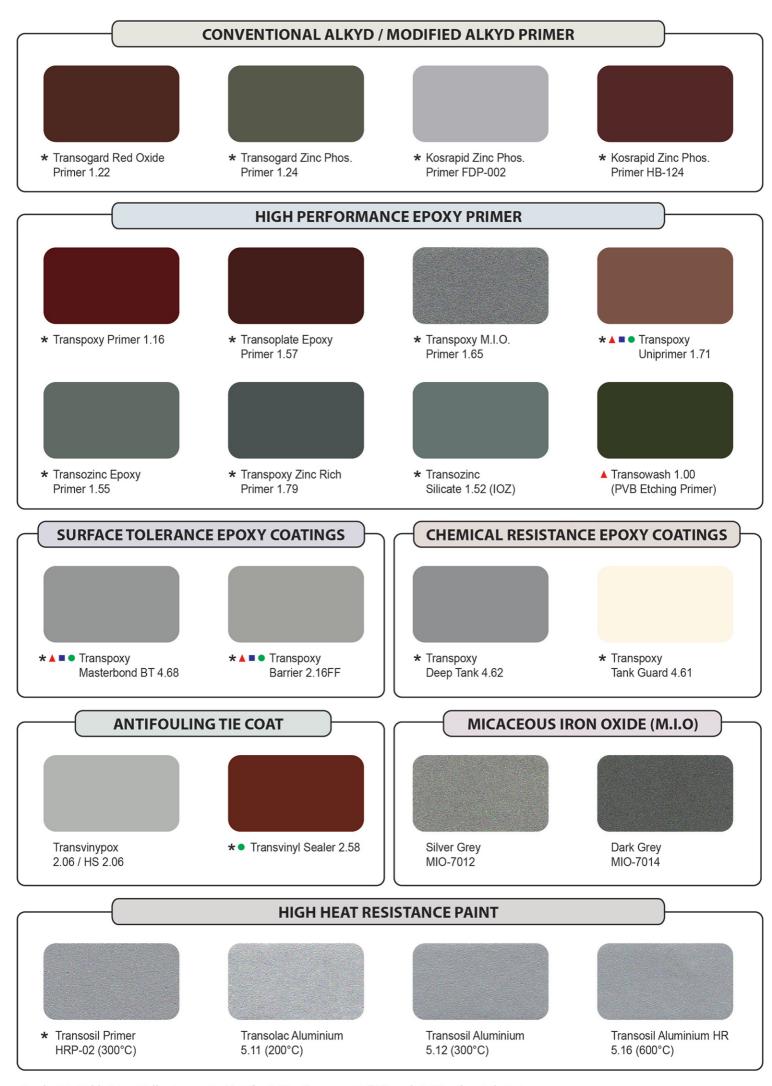


Above Water Scheme

Underwater Scheme

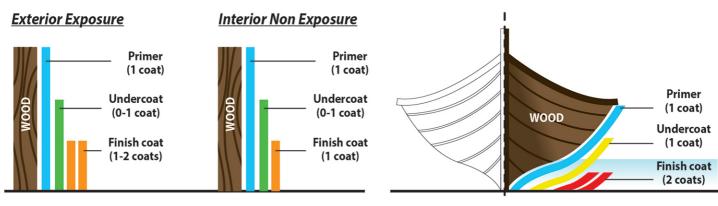
	Above Water Structures, Hull, Deck & etc											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
	2.06	1	75~100	A9-000	1	40~50	A9-000	1	40~50			
	91.71	1	50~75	ACY (or) ACM	1	35~45	ACY (or) ACM	1	35~45			
EXTERIOR EXPOSURE	91.71 (or) 4.06	1	75~100	3.43 (or) 3.63	1	40~50	3.43 (or) 3.63	1	40~50			
	4.06 (or) 4.68	1	75~ 100	-	-	-	4.06 (or) 4.68	1	75~100			
	91.71	1	50~75	AST-490	1	100~ 125	3.43 (or) 3.63	2	40~50			
	91.71	1	50~75	A91-000	1	40~50	A91-000	1	40~50			
INTERIOR	91.71	1	75~100	4.60	1	40~50	4.60	1	40~50			
NON EXPOSURE	4.06 (or) 4.68	1	75~ 100	-		-	4.06 (or) 4.68	1	75~ 100			
	91.71	1	75~100	AST-490	1	75~100	AST-490	1	75~ 100			

	Underwater Ships / Boats Hull												
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)				
10-18	2.16FF	1	100~150	2.06	1	75~100	Armada Eco 9	2	100~125				
12-24	2.16FF	1	100~150	2.06	1	75~100	Armada Eco 12	2	100~125				
24-36	2.16FF	1	100~150	2.06	1	75~100	2.95	2	100~ 150				
24-36	4.66 (or) 4.68	1	100~150	2.06	1	75~100	TF-1000	2	100~ 150				
36-42	4.66 (or) 4.68	1	100~150	2.06	1	75~100	Armada Eco 36	2	125~ 150				
48-60	4.66 (or) 4.68	1	100~150	2.06	1	75~100	Armada Eco 60	2	125~ 150				
60	4.66 (or) 4.68	1	100~150	2.06	1	75~100	SPA-68 / 2.62	2	125~ 150				



Product Suitable Direct Adhesion on * Metal, A Non Ferrous, FRP and Wooden Substrates.

WOOD



Above Water Scheme

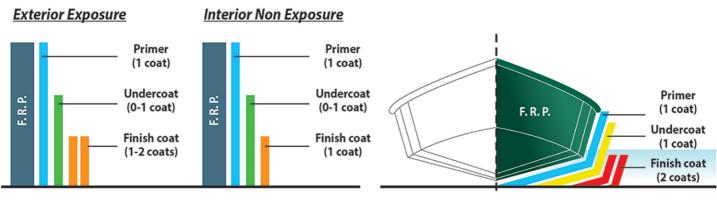
Underwater Scheme

	Above Water Structures, Hull, Deck & etc											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
	3.21	1	30-50	A9-000	1	35~45	A9-000	1	35~45			
	91.71	1	50~75	ACY (or) ACM	1	35~45	ACY (or) ACM	1	35~45			
EXTERIOR EXPOSURE	91.71	1	50~75	3.43 (or) 3.63	1	40~50	3.43 (or) 3.63	1	40~50			
	4.06 (or) 4.68	1	75~100	-	-	-	4.06 (or) 4.68	1	75~100			
	91.71	1	50~75	AST-490	1	100~ 150	3.43 (or) 3.63	1~2	40~50			
	3.21	1	40~50	A91-000	1	40~50	A91-000	1	40~50			
INTERIOR	91.71	1	50~75	4.60	1	40~50	4.60	1	40~50			
NON EXPOSURE	4.06 (or) 4.68	1	75~ 100	-	-	-	4.06 (or) 4.68	1	75~ 100			
	91.71	1	50~75	AST-490	1	75~ 100	AST-490	1	75~ 100			

	Underwater Ships / Boats Hull											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
10-18	4.06	1	75~100	2.06	1	75~100	Armada Eco 9	2	100~125			
12-24	4.06	1	75~100	2.06	1	75~100	Armada Eco 12	2	100~125			
24-36	4.06	1	75~100	2.06	1	75~100	2.95	2	100~150			
24-36	4.66 (or) 4.68	1	75~100	2.06	1	75~100	TF-1000	2	100~150			
36-42	4.66 (or) 4.68	1	100~150	2.06	1	75~100	Armada Eco 36	2	125~150			
48-60	4.66 (or) 4.68	1	100~150	2.06	1	75~100	Armada Eco 60	2	125~ 150			
60	4.66 (or) 4.68	1	100~150	2.06	1	75~100	SPA-68 / 2.62	2	125~ 150			

PAINTING SYSTEM GUIDE FOR SHIPS / BOATS

F. R. P.



Above Water Scheme

Underwater Scheme

	Above Water Structures, Hull, Deck & etc											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
	91.71	1	50~75	ACY (or) ACM	1	35~45	ACY (or) ACM	1	35~45			
EXTERIOR	4.06 (or) 4.68	1	75~100	3.43 (or) 3.63	1	40~50	3.43 (or) 3.63	1	40~50			
EXPOSURE	4.06 (or) 4.68	1	75~100	-	-	-	4.06 (or) 4.68	1	75~100			
	91.71	1	50~75	AST-490	1	100~ 150	3.43 (or) 3.63	1~2	40~50			
INTERIOR	91.71	1	50~75	4.60	1	40~50	4.60	1	40~50			
NON	4.06 (or) 4.68	1	75~ 100	-	-	-	4.06 (or) 4.68	1	75~ 100			
EXPOSURE	91.71	1	100~ 125	AST-490	1	75~ 100	AST-490	1	75~100			

	Underwater Ships / Boats Hull											
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)			
10-18	4.06	1	75~100	2.06	1	75~100	Armada Eco 9	2	100~125			
12-24	4.06	1	75~100	2.06	1	75~100	Armada Eco 12	2	100~125			
24-36	4.06	1	75~100	2.06	1	75~100	2.95	2	100~150			
24-36	4.66 (or) 4.68	1	75~100	2.06	1	75~100	TF-1000	2	100~150			
36-42	4.66 (or) 4.68	1	100~150	2.06	1	75~100	Armada Eco 36	2	125~150			
48-60	4.66 (or) 4.68	1	100~150	2.06	1	75~100	Armada Eco 60	2	125~150			
60	4.66 (or) 4.68	1	100~150	2.06	1	75~100	SPA-68 / 2.62	2	125~150			

* Life times expectations are difficult to give, as it is dependent on many factors beyond our control such as vessel's speed and sailing pattern, sea water quality and temperature. Therefore the above stated antifouling specification should be use for guidance only.

MARINE & PROTECTIVE STANDARD COLOUR

* Super Gloss Finish 6000-S

* Marine High Gloss Finish

A6-XXX

A9-XXX

Lily White 913	Dove White 921	Lavender White 215	Mistral 490	Seagreen 019 (T.O.31)	Crystal Blue 505	Orange 01
Pearl White 915	Rosette 803	Dawn Grey 693	Silver Grey 739 (T.O.56)	Deepsea Green 119	Tanjung 032	Rescue Or
Off White 933	Jasmine 497	Venus 002	Lichen Green 011	Turquoise 006	China Blue 642	Rustic 332
lvory 831	Signal Yellow 078 (T.O.12)	Smoke Grey 695	Tropicana 026	Opal Green 644	Olympic Blue 655	Signal Red
Maple 847	Golden Yellow 456	Exercutive Grey 104	Jade Green 048	Pangkor 005	Neptune 031	Chilli Red 8
Middle Mast 222 (T.O.22)	Jute 852	Middle Grey 158 (T.O.58)	Signal Green 178 (T.O.38)	Petronas Green 008	Pacific Blue 487	Wira Blue
Nutmeg 043 (BS 3-043)	Golden Honey 727	Dark Grey 012 (T.O.59)	Bottle Green 426 (T.O.39)	Catalina 489	Marine Blue 649	Ultramarine

* Also available in White 101 and Black 122

* Colour shown in this colour card are as close to actual colours as modern printing techniques allow. * Special colour available upon request.

special colour available apoil reque

*预备有白色101与黑色122

*图中所示色彩是现代印刷技术所能达致的最接近实际的颜色。

*还有多种特别的颜色以供顾客的要求。



SURFACE PREPARATION

It is essential to have a properly prepare surface to ensure precise and long lasting coating performance.



Steel

Oil and grease should be removed by solvent cleaning. Remove weld spatter and smooth weld seams and sharp edges as applicable. Abrasive blasting: min. Sa 2.5-ISO 8501:1. Apply the suitable primer immediately after the steel has been blasted. Corroded areas should be power tool cleaned to ISO-St3 or blast cleaned to ISO-Sa2 or better. Existing systems should be dry and free from loose paint, salt, grease and other contaminants prior to overcoating.

Galvanized (or) Non-ferrous Metals

Treat surface with Gelclean followed by light blast cleaning with a fine grade, inert abrasive or by using suitable power tools such as disc sanders, make sure surface are dry clean and free from oil, grease, dirt and other contaminants.

Timber/Wood

Ensure surface is dry. Sand and remove the remaining dust with dry rags or rags slightly dampened with water (not solvent). Wood crack or poles should first be repair with suitable wood filler follow by sanding to smoothen the surface prior to painting.

FRP

Ensure surface is dry and free from traces of wax, lubricants and other contaminants. Suitable power tools such as disc sanders or manual sanding with suitable grade of sand paper to roughten the surface if necessary. Treat if required with Transocean Gelclean.

Remarks: For more details about surface preparation, please refer to our technical section "Guide to Painting" or refer to our technical personal for your assistance.





KOSSAN PAINT (M) SDN BHD KOSSAN PAINT MARKETING SDN BHD

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