



Marine Paints

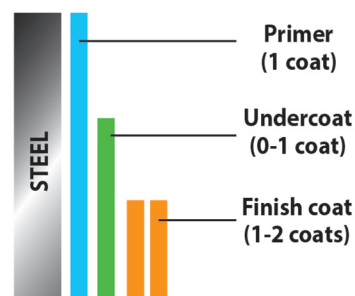
Name Behind Quality



PAINING SYSTEM GUIDE FOR SHIPS / BOATS

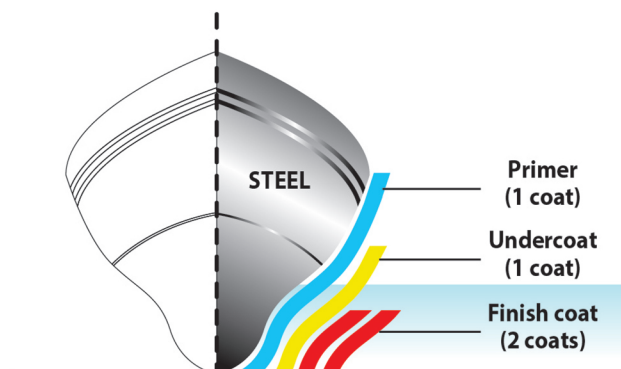
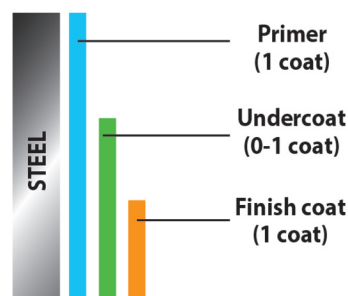
STEEL

Exterior Exposure



Above Water Scheme

Interior Non Exposure



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)
EXTERIOR EXPOSURE	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
	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
INTERIOR NON EXPOSURE	1.22 (or) 1.24	1	40~50	A91-000	1	35~45	A91-000	1	35~45
	91.71	1	50~75	4.60	1	40~50	4.60	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	75~100	AST-490	1	75~100

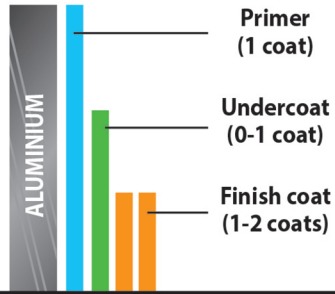
Underwater Ships / Boats Hull

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

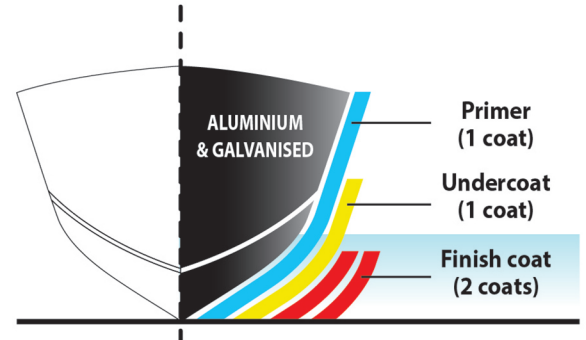
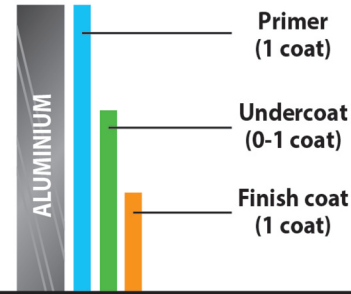
* Life times expectations are difficult to give, as it is dependent on many factors beyond our control such as vessel's speed and sailing pattern, sea water quality and temperature. Therefore the above stated antifouling specification should be use for guidance only.

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)
EXTERIOR EXPOSURE	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
	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
INTERIOR NON EXPOSURE	91.71	1	50~75	A91-000	1	40~50	A91-000	1	40~50
	91.71	1	75~100	4.60	1	40~50	4.60	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	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

CONVENTIONAL ALKYD / MODIFIED ALKYD PRIMER



* Transogard Red Oxide
Primer 1.22



* Transogard Zinc Phos.
Primer 1.24



* Kosrapid Zinc Phos.
Primer FDP-002



* Kosrapid Zinc Phos.
Primer HB-124

HIGH PERFORMANCE EPOXY PRIMER



* Transoxy Primer 1.16



* Transoplate Epoxy
Primer 1.57



* Transoxy M.I.O.
Primer 1.65



* ▲ ■ ● Transoxy
Uniprimer 1.71



* Transozinc Epoxy
Primer 1.55



* Transoxy Zinc Rich
Primer 1.79



* Transozinc
Silicate 1.52 (IOZ)



▲ Transowash 1.00
(PVB Etching Primer)

SURFACE TOLERANCE EPOXY COATINGS



* ▲ ■ ● Transoxy
Masterbond BT 4.68

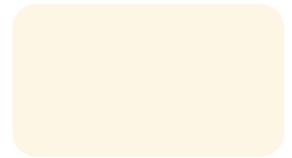


* ▲ ■ ● Transoxy
Barrier 2.16FF

CHEMICAL RESISTANCE EPOXY COATINGS



* Transoxy
Deep Tank 4.62



* Transoxy
Tank Guard 4.61

ANTIFOULING TIE COAT



Transvinox
2.06 / HS 2.06



* ● Transvinyll Sealer 2.58

MICACEOUS IRON OXIDE (M.I.O)



Silver Grey
MIO-7012

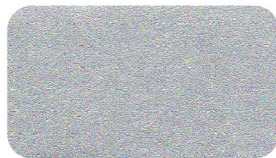


Dark Grey
MIO-7014

HIGH HEAT RESISTANCE PAINT



* Transosil Primer
HRP-02 (300°C)



Transolac Aluminium
5.11 (200°C)



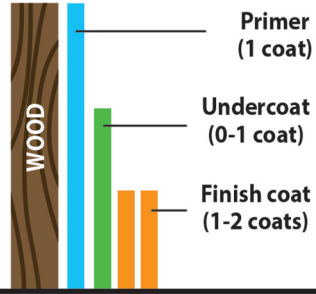
Transosil Aluminium
5.12 (300°C)



Transosil Aluminium HR
5.16 (600°C)

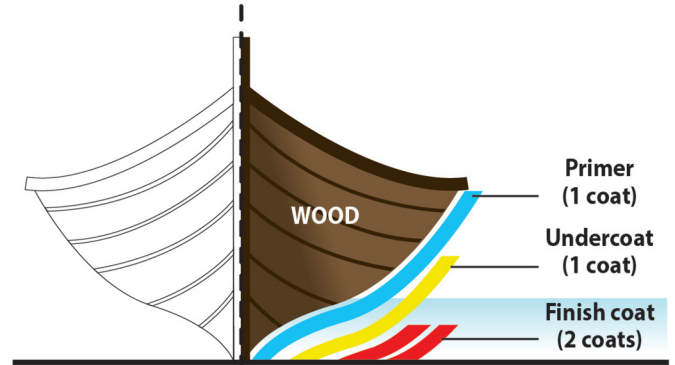
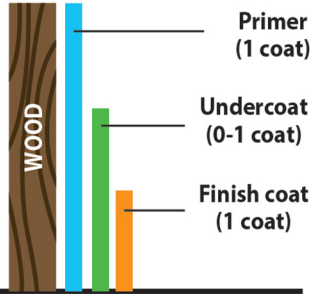
WOOD

Exterior Exposure



Above Water Scheme

Interior Non Exposure



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)
EXTERIOR EXPOSURE	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
	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
INTERIOR NON EXPOSURE	3.21	1	40~50	A91-000	1	40~50	A91-000	1	40~50
	91.71	1	50~75	4.60	1	40~50	4.60	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	75~ 100	AST-490	1	75~ 100

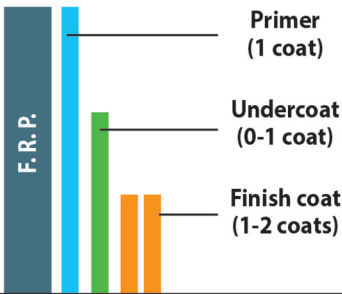
Underwater Ships / Boats Hull

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

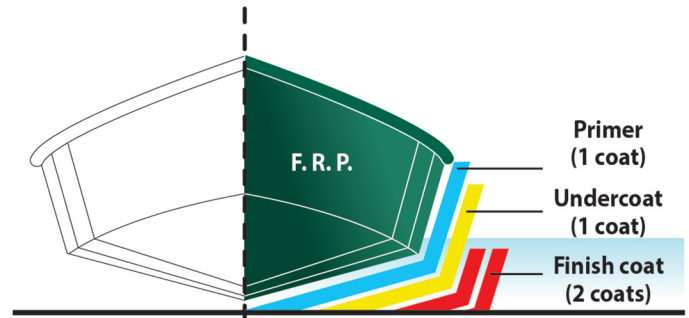
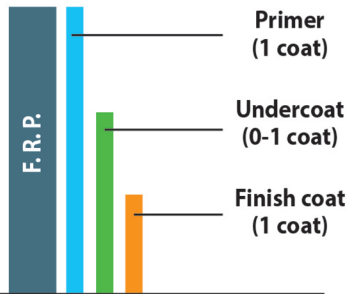
PAINING SYSTEM GUIDE FOR SHIPS / BOATS

F. R. P.

Exterior Exposure



Interior Non Exposure



Above Water Scheme

Underwater Scheme

Above Water Structures, Hull, Deck & etc

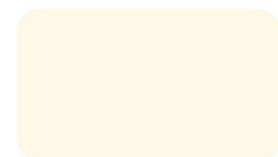
EXPECTED LIFT (Months)	PRIMER	NO OF COAT	DFT/COAT (µm)	UNDERCOAT/ TIE COAT	NO OF COAT	DFT/COAT (µm)	FINISH/ TOP COAT	NO OF COAT	DFT/COAT (µm)
EXTERIOR EXPOSURE	91.71	1	50~75	ACY (or) ACM	1	35~45	ACY (or) ACM	1	35~45
	4.06 (or) 4.68	1	75~100	3.43 (or) 3.63	1	40~50	3.43 (or) 3.63	1	40~50
	4.06 (or) 4.68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

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MARINE & PROTECTIVE STANDARD COLOUR



Lily White 913



Dove White 921



Lavender White 215



Mistral 490



Seagreen 019 (T.O.31)



Crystal Blue 505



Orange 017



Sakura 433



Pearl White 915



Rosette 803



Dawn Grey 693



Silver Grey 739 (T.O.56)



Deepsea Green 119



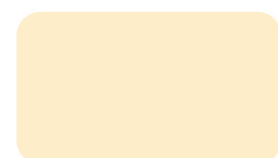
Tanjung 032



Rescue Orange 020 (T.O.62)



Celebration 494



Off White 933



Jasmine 497



Venus 002



Lichen Green 011



Turquoise 006



China Blue 642



Rustic 332



Oak 322



Ivory 831



Signal Yellow 078 (T.O.12)



Smoke Grey 695



Tropicana 026



Opal Green 644



Olympic Blue 655



Signal Red 437 (T.O.64)



Deep Leather 116



Maple 847



Golden Yellow 456



Executive Grey 104



Jade Green 048



Pangkor 005



Neptune 031



Chilli Red 808



Wooden Olive 911



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 035



Antique 037



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 Blue 645



Leather 807

* 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.

* 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。

* Super Gloss Finish 6000-S

A6-XXX

* Marine High Gloss Finish

A9-XXX

* Epoxy Finish E-series

E-XXX

* Polyurethane Finish P-series

P-XXX

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 roughen 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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