

MARINE COATINGS



Queen Mary 2





Investigator



OSV + PHT



Sailing Craft





Super Yachts





PAINTING GUIDE MARINE

Above & Below Waterline

➤ Aluminium

➢ Fibreglass

> Steel

> Timber







ABOVE WATERLINE

MINIMUM SURFACE PREPARATION

- Loose paint to be removed by scraping. Oil, grease, salts and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing topcoat to be removed back to sound primer, ensuring that this remaining primer is sanded to a minimum 36g profile.

- Damaged timber areas, and areas where the existing primer is not stable to be power-tool sanded with 36g discs to remove this and expose fresh timber. Edges to remaining intact primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove debris, and solvent wipe the sanded paint surface. Commence initial primer application to exposed, clean timber before surface is contaminated.

Present System	Primer Coat to exposed timber	Coats x DFT um	Intermediate Coat to whole surface	Coats x DFT um	Finishing Coat	Coats x DFT um
Ероху	Jotamastic 90 or Jotacote 605 or Penguard HB <i>First coat thinned 20</i>	1 x 50 1 x 50 1 x 50 %	Jotamastic 90 or Jotacote 605 or Penguard HB	1 x 200 1 x 200 1 x 150		
Epoxy / Polyurethane	Jotamastic 90 or Jotacote 605 or Penguard HB <i>First coat thinn</i>	1 x 50 1 x 50 1 x 50 ed 20%	Penguard HB (sandable)	1-2 x 150	Imperite 300 or Hardtop Range	2-3 x 40 2-3 x 40
Epoxy / Acylic Enamel	Jotamastic 90 or Jotacote 605 or Penguard HB <i>First coat thinn</i>	1 x 50 1 x 50 1 x 50 ed 20%	Penguard HB (sandable) or Alkyd Primer	1-2 x 150 2 x 50	Pioner Topcoat or Pilot II	2 x 50 2 x 40
Acrylic Enamel	Vinyguard Slivergre 88 (thin first coat by		Alkyd Primer	2 x 50	Pilot II	2 x 40

The Acrylic Enamel system is most preferable for timber vessels.

Finishing coat may be deleted if colour and gloss retention is not of high importance.

Jotun Non-Skid/Non-Spark Additive may be used at the applicator's discretion between topcoats to achieve the desired level of non-skid textured finish for deck areas. The additive may be broadcast into the first wet coat of topcoat then sealed with the second coat. Alternatively spray additive with the second coat.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.



Products	Description
Alkyd Primer	Alkydprimer is a single-pack alkyd based primer. As a primer for steel and aluminium structures as part of a suitable alkyd system.
Vinyguard Slivergrey 88	Vinyguard Silvergrey 88 is a single-pack quick drying, modified vinyl primer. Also as a tie coat or as a sealer for an antifouling system. Can also be used as a primer/touch-up primer under alkyd and acrylic coatings for steel structures.
Hardtop Ultra, AX, XP, Flexi	Hardtop is a two-pack polyurethane topcoat. As topcoat over an epoxy/ epoxymastic system where a durable finish is required in aggressive atmospheric exposure.
Imperite 300	Imperite 300 is a high gloss two-pack polyester-polyurethane topcoat with excellent gloss and colour retention. As a topcoat over an epoxy system where a durable, high gloss finish is required in aggressive atmospheric exposure.
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Jotamastic 90	Jotamastic 90 is a two-pack surface-tolerant, abrasion resistant, high solids, polyamine cured epoxy mastic coating. Gives excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur.
Penguard HB	Penguard HB is a high build, two-pack epoxy coating based on epoxy resin with high molecular weight. Easy to sand.
Pilot II	Pilot II is a single-pack alkyd based topcoat for both exterior and interior use. Topcoat in a traditional alkyd system suitable for steel and woodwork. Good weather and colour stability. Good hiding power.
Pioner Topcoat	Pioner Topcoat is a single-pack acrylic resin based topcoat. Finishing coat for protection of steel and concrete in a variety of climatic conditions, exterior and interior.

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PAINTING SYSTEMS FOR Timber Vessels

BELOW WATERLINE



MINIMUM SURFACE PREPARATION

- Fouling, loose paint and heavy corrosion to be removed by scraping. Oil, grease, salts, fouling and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

All existing antifoul should be wet or dry sanded to a minimum 80g profile. All unstable antifoul should be removed. Rinse with fresh water.
Damaged timber areas, and areas where the existing primer is not stable to be power-tool sanded with 36g discs to remove this and expose fresh timber. Edges to remaining intact antifoul and/or primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove debris, and wipe clean the sanded paint surface. Commence initial primer application to exposed, clean timber before surface is contaminated.

Present System	Primer Coat to exposed timber	Coats x DFT um	Intermediate Coat to primed areas	Coats x DFT um	Antifoul Coat	Coats x DFT um
Epoxy / Vinyl	Jotamastic 90 or Jotacote 605 <i>First coat thinne</i>	1 x 250 1 x 250 d 20%	Safeguard Universal ES or Vinyguard Silvergrey 8	1 x 150 88 1 x 80	Seavictor 40 or Seaguardian or Seavictor 50	2-3 x 100 1-2 x 100 1-2 x 100
Vinyl	Vinyguard Silvergrey 88 (thin first coat by 10%)	2 x 50	Vinyguard Silvergrey 8	38 1 x 80	Seavictor 40 or Seaguardian or Seavictor 50	2-3 x 100 1-2 x 100 1-2 x 100

The Vinyl system is most preferable for timber vessels.

Excess and/or aged coats of antifoul can become unstable over time, impeeding the antifoul coating and vessel performance. A Jotun representative can advise on the condition of your vessel's below waterline system and offer recommendations once it is slipped. Not all antifoul coatings are compatible. Selection of antifoul and its performance can vary according to vessel type, vessel use, film thickness applied, etc. A Jotun representative can advise options if you wish to change products or are unsure of your existing system.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.

The systems shown are minimum examples of the many options available and only outline re-application to an existing system. Jotun can further advise on the system which offers the most economical and effective solution to your needs. Contact Jotun per reverse-side details.



Products	Description
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Safeguard Universal ES	Safeguard Universal ES is a two-pack epoxy vinyl-based coating. Safeguard Universal ES is normally used as an anti-corrosive undercoat for various paint systems or as a sealer coat on antifouling. It provides very good adhesion for self-polishing antifoulings.
Seaguardian	Seaguardian is a tin-free ablative antifouling based on a copolymer binder for low and high speed vessels.
Seavictor 40	Seavictor 40 is a tin-free self-polishing antifouling based on a copolymer binder for low speed vessels.
Seavictor 50	Seavictor 50 is a tin-free self-polishing antifouling based on a copolymer binder for low speed vessels. It has an additional active agent for improved control of algae.
Vinyguard Silvergrey 88	Vinyguard Silvergrey 88 is a single-pack quick drying, modified vinyl primer. Also as a tie coat or as a sealer for an antifouling system. Can also be used as a primer/touch-up primer under alkyd and acrylic coatings for steel structures.

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PAINTING SYSTEMS FOR Aluminium Vessels

ABOVE WATERLINE

MINIMUM SURFACE PREPARATION

- Loose paint and heavy corrosion to be removed by scraping. Oil, grease, salts and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing topcoat to be removed back to sound primer, ensuring that this remaining primer is sanded to a minimum 36g profile.

- Corroded and damaged aluminium areas, and areas where the existing primer is not stable to be power-tool cleaned to minimum St. 2 (ISO 8501-1:2007), grinding with 24g-36g discs to remove this and expose fresh aluminium. Edges to remaining intact primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove filings from aluminium, and solvent wipe the sanded paint surface. Commence initial primer application to exposed, clean aluminium before surface is contaminated, and in any event within 6-8 hours.

Present System	Primer Coat to exposed aluminium	Coats x DFT um	Intermediate Coat to whole surface	Coats x DFT um	Finishing Coat	Coats x DFT um
Ероху	Jotacote 605	1 x 200	Jotacote 605	1 x 200		
Epoxy / Polyurethane	Jotacote 605 or Penguard HB or Penguard Special	1 x 200 1 x 150 1 x 150	Penguard HB	1-2 x 150	Imperite 300 or Hardtop Range AX, XP, Ultra	2-3 x 40 2-3 x 40
Epoxy / Acylic Enamel	Jotacote 605	1 x 200	Penguard HB or Alkyd Primer	1-2 x 150 3 x 50	Pioner Topcoat or Pilot II	2 x 50 2 x 40

Finishing coat may be deleted if colour and gloss retention is not of high importance.

Jotun Non-Skid/Non-Spark Additive may be used at the applicator's discretion between topcoats to achieve the desired level of non-skid textured finish for deck areas. The additive may be broadcast into the first wet coat of topcoat then sealed with the second coat. Alternatively spray additive with the second coat.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.



Products	Description
Alkyd Primer	Alkydprimer is a single-pack alkyd based primer. As a primer for steel and aluminium structures as part of a suitable alkyd system.
Hardtop Ultra, AX, XP, Flexi	Hardtop is a two-pack polyurethane topcoat. As topcoat over an epoxy/ epoxymastic system where a durable finish is required in aggressive atmospheric exposure.
Imperite 300	Imperite 300 is a high gloss two-pack polyester-polyurethane topcoat with excellent gloss and colour retention. As a topcoat over an epoxy system where a durable, high gloss finish is required in aggressive atmospheric exposure.
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Penguard HB	Penguard HB is a high build, two-pack epoxy coating based on epoxy resin with high molecular weight. Easy to sand.
Penguard Special	Penguard Special is a high build, two-pack zinc phosphate pigmented epoxy coating based on epoxy resin with high molecular weight. As an anti corrosive primer and intermediate coating for corrosion protection. Easy to sand.
Pilot II	Pilot II is a single-pack alkyd based topcoat for both exterior and interior use. Topcoat in a traditional alkyd system suitable for steel and woodwork. Good weather and colour stability. Good hiding power.
Pioner Topcoat	Pioner Topcoat is a single-pack acrylic resin based topcoat. Finishing coat for protection of steel and concrete in a variety of climatic conditions, exterior and interior.

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PAINTING SYSTEMS FOR Aluminium Vessels

BELOW WATERLINE

MINIMUM SURFACE PREPARATION

- Fouling, loose paint and heavy corrosion to be removed by scraping. Oil, grease, salts, fouling and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing antifoul should be wet or dry sanded to a minimum 80g profile. All unstable antifoul should be removed. Rinse with fresh

- Corroded and damaged aluminium areas, and areas where the existing primer is not stable to be power-tool cleaned to minimum St. 2 (ISO 8501-1:2007), grinding with 24g-36g discs to remove this and expose fresh aluminium. Edges to remaining intact antifoul and/or primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove filings from aluminium and wipe clean the sanded paint surface. Commence initial primer application to exposed, clean aluminium before surface is contaminated, and in any event within 6-8 hours.

Present System	Primer Coat to exposed aluminium	Coats x DFT um	Intermediate Coat to primed areas	Coats x DFT um	Antifoul Coat	Coats x DFT um
Epoxy / Vinyl	Jotacote 605 Penguard HB	1 x 250 1 x 150	Safeguard Universal ES or Vinyguard Silvergrey	1 x 150 38 1 x 80	Seasafe Ultra	2-3 x 100

Excess and/or aged coats of antifoul can become unstable over time, impeeding the antifoul coating and vessel performance. A Jotun representative can advise on the condition of your vessel's below waterline system and offer recommendations once it is slipped. Not all antifoul coatings are compatible. Selection of antifoul and its performance can vary according to vessel type, vessel use, film thickness applied, etc. A Jotun representative can advise options if you wish to change products or are unsure of your existing system.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat. The systems shown are minimum examples of the many options available and only outline re-application to an existing system. Jotun can further advise on the system which offers the most economical and effective solution to your needs. Contact Jotun per reverse-side details.



Products	Description
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Safeguard Universal ES	Safeguard Universal ES is a two-pack epoxy vinyl-based coating. Safeguard Universal ES is normally used as an anti-corrosive undercoat for various paint systems or as a sealer coat on antifouling. It provides very good adhesion for self-polishing antifoulings.
Seasafe Ultra	Seasafe is a tin-free self-polishing antifouling based on a copolymer binder that has been specifically designed for safe use on aluminium hulls. It has an additional active agent for improved control of algae.
Vinyguard Silvergrey 88	Vinyguard Silvergrey 88 is a single-pack quick drying, modified vinyl primer. Also as a tie coat or as a sealer for an antifouling system. Can also be used as a primer/touch-up primer under alkyd and acrylic coatings for steel structures.

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Fibreglass Vessels

ABOVE WATERLINE

MINIMUM SURFACE PREPARATION

- Loose paint to be removed by scraping. Oil, grease, salts and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing topcoat to be removed back to sound primer, ensuring that this remaining primer is sanded to a minimum 36g profile.

Damaged fibreglass areas, and areas where the existing primer is not stable to be power-tool cleaned, grinding/sanding with 24g-36g discs to remove this and expose fresh fibreglass. Edges to remaining intact primer to be feathered, if not removing system completely.
Blow down surface with dry, filtered air to remove debris, and solvent wipe the sanded paint surface. Commence initial primer application to

exposed, clean fibreglass before surface is contaminated.

Present System	Primer Coat to exposed fibreglass	Coats x DFT um	Intermediate Coat to whole surface	Coats x DFT um	Finishing Coat	Coats x DFT um
Ероху	Jotamastic 90 or Jotacote 605	1 x 200 1 x 200	Jotamastic 90 or Jotacote 605	1 x 200 1 x 200		
Epoxy / Polyurethane	Jotamastic 90 or Jotacote 605 or Penguard HB	1 x 200 1 x 200 1 x 150	Penguard HB	1-2 x 150	Imperite 300 or Hardtop Range	2-3 x 40 2-3 x 40
Epoxy / Acylic Enamel	Jotamastic 90 or Jotacote 605 or Penguard HB	1 x 200 1 x 200 1 x 150	Penguard HB or Alkyd Primer	1-2 x 150 3 x 50	Pioner Topcoat or Pilot II	2 x 50 2 x 40

Finishing coat may be deleted if colour and gloss retention is not of high importance.

Jotun Non-Skid/Non-Spark Additive may be used at the applicator's discretion between topcoats to achieve the desired level of non-skid textured finish for deck areas. The additive may be broadcast into the first wet coat of topcoat then sealed with the second coat. Alternatively spray additive with the second coat.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.



Products	Description
Alkyd Primer	Alkydprimer is a single-pack alkyd based primer. As a primer for steel and aluminium structures as part of a suitable alkyd system.
Hardtop Range - Ultra, AX, XP, Flexi	Hardtop is a two-pack polyurethane topcoat. As topcoat over an epoxy/ epoxymastic system where a durable finish is required in aggressive atmospheric exposure.
Imperite 300	Imperite 300 is a high gloss two-pack polyester-polyurethane (linear) topcoat with excellent gloss and colour retention. As a topcoat over an epoxy system where a durable, high gloss finish is required in aggressive atmospheric exposure.
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Jotamastic 90	Jotamastic 90 is a two-pack surface-tolerant, abrasion resistant, high solids, polyamine cured epoxy mastic coating. Gives excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur. Can be tinted using Jotun MCI system
Penguard HB	Penguard HB is a high build, two-pack epoxy coating based on epoxy resin with high molecular weight. Easy to sand.
Pilot II	Pilot II is a single-pack alkyd based topcoat for both exterior and interior use. Topcoat in a traditional alkyd system suitable for steel and woodwork. Good weather and colour stability. Good hiding power.
Pioner Topcoat	Pioner Topcoat is a single-pack acrylic resin based topcoat. Finishing coat for protection of steel and concrete in a variety of climatic conditions, exterior and interior.

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PAINTING SYSTEMS FOR Fibreglass Vessels

BELOW WATERLINE

MINIMUM SURFACE PREPARATION

- Fouling, loose paint and heavy corrosion to be removed by scraping. Oil, grease, salts, fouling and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing antifoul should be wet or dry sanded to a minimum 80g profile. All unstable antifoul should be removed. Rinse with fresh water.

- Damaged fibreglass areas, and areas where the existing primer is not stable to be power-tool cleaned, grinding/sanding with 24g-36g discs to remove this and expose fresh fibreglass. Edges to remaining intact antifoul and/or primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove debris and wipe clean the sanded paint surface. Commence initial primer application to exposed, clean fibreglass before surface is contaminated.

Present System	Primer Coat to exposed fibreglass	Coats x DFT um	Intermediate Coat to primed areas	Coats x DFT um	Antifoul Coat	Coats x DFT um
Epoxy / Vinyl	Jotamastic 90 or Jotacote 605	1 x 250 1 x 250	Safeguard Universal ES or Vinyguard 88	1 x 150 1 x 80	Seaguardian or Seavictor 40 or Seavictor 50	2-3 x 100 2-3 x 100 2-3 x 100

Excess and/or aged coats of antifoul can become unstable over time, impeeding the antifoul coating and vessel performance. A Jotun representative can advise on the condition of your vessel's below waterline system and offer recommendations once it is slipped. Not all antifoul coatings are compatible. Selection of antifoul and its performance can vary according to vessel type, vessel use, film thickness applied, etc. A Jotun representative can advise options if you wish to change products or are unsure of your existing system.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.

The systems shown are minimum examples of the many options available and only outline re-application to an existing system. Jotun can further advise on the system which offers the most economical and effective solution to your needs. Contact Jotun per reverse-side details.



Products	Description
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Jotamastic 90	Jotamastic 90 is a two-pack surface-tolerant, abrasion resistant, high solids, polyamine cured epoxy mastic coating. Gives excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur. Can be tinted using Jotun MCI system
Safeguard Universal ES	Safeguard Universal ES is a two-pack epoxy vinyl-based coating. Safeguard Universal ES is normally used as an anti-corrosive undercoat for various paint systems or as a sealer coat on antifouling. It provides very good adhesion for self-polishing antifoulings.
Seaguardian	Seaguardian is a tin-free ablative antifouling based on a copolymer binder for low and high speed vessels.
Seavictor 40	Seavictor 40 is a tin-free self-polishing antifouling based on a copolymer binder for low speed vessels.
Seavictor 50	Seavictor 50 is a tin-free self-polishing antifouling based on a copolymer binder for low speed vessels. It has an additional active agent for improved control of algae.
Vinyguard 88	Vinyguard Silvergrey 88 is a single-pack quick drying, modified vinyl primer. Also as a tie coat or as a sealer for an antifouling system. Can also be used as a primer/touch-up primer under alkyd and acrylic coatings for steel structures.

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PAINTING SYSTEMS FOR Steel Vessels

ABOVE WATERLINE

MINIMUM SURFACE PREPARATION

- Loose paint and heavy corrosion to be removed by scraping. Oil, grease, salts and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing topcoat to be removed back to sound primer, ensuring that this remaining primer is sanded to a minimum 36g profile.

- Corroded and damaged steel areas, and areas where the existing primer is not stable to be power-tool cleaned to minimum St 2 (ISO 8501-1:2007), grinding with 24g-36g discs to remove this and expose fresh steel. Edges to remaining intact primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove filings from steel, and solvent wipe the sanded paint surface. Commence initial primer application to exposed, clean steel before surface is contaminated, and in any event within 4 hours.

Present System	Primer Coat to exposed steel	Coats x DFT um	Intermediate Coat to whole surface	Coats x DFT um	Finishing Coat	Coats x DFT um
Ероху	Jotamastic 90 or Jotacote 605	1 x 200 1 x 200	Jotamastic 90 or Jotacote 605	1 x 200 1 x 200		
Recommended Epoxy / Polyurethane	Jotamastic 90 or Jotacote 605	1 x 200 1 x 200	Jotamastic 90 Jotacote 605	1 x 200 1 x 200	Imperite 300 (glos or Hardtop Range	sy) 2-3 x 40
Epoxy / Acylic Enamel	Jotamastic 90 or Jotacote 605	1 x 200 1 x 200	Penguard HB or Alkyd Primer	1-2 x 150 2 x 50	Pioner Topcoat or Pilot II	2 x 50 2 x 40
Vinyl	Vinyguard Silvergrey 88	2 x 80	Vinyguard Silvergrey 88	1 x 80	Pioner Topcoat	2 x 50
Acrylic Enamel	Jotaprime 250 or Alkyd Primer	1 x 100 2 x 50	Alkyd Primer	2 x 50	Pilot II	2 x 40

Finishing coat may be deleted if colour and gloss retention is not of high importance.

Jotun Non-Skid/Non-Spark Additive may be used at the applicator's discretion between topcoats to achieve the desired level of non-skid textured finish for deck areas. The additive may be broadcast into the first wet coat of topcoat then sealed with the second coat. Alternatively spray additive with the second coat.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.



Products	Description
Alkyd Primer	Alkydprimer is a single-pack alkyd based primer. As a primer for steel and aluminium structures as part of a suitable alkyd system.
Hardtop Ultra, AX, XP, Flexi	Hardtop is a two-pack polyurethane topcoat. As topcoat over an epoxy/ epoxymastic system where a durable finish is required. Hardtop AX is a hghbuild, high solids version for greater coverage.
Imperite 300	Imperite 300 is a high gloss two-pack polyester-polyurethane topcoat with excellent gloss and colour retention. As a topcoat over an epoxy system where a durable, high gloss finish is required in aggressive atmospheric exposure.
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Jotamastic 90	Jotamastic 90 is a two-pack surface-tolerant, abrasion resistant, high solids, polyamine cured epoxy mastic coating. Gives excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur. Can be tinted to almost any colour.
Jotaprime 250	Jotaprime 250 is a single-pack high build air drying primer with enhanced zinc phosphate pigments. Jotaprime 250 does not contain chromates. An anti-corrosive primer for ferrous metals.
Penguard HB	Penguard HB is a high build, two-pack epoxy coating based on epoxy resin with high molecular weight. Easy to sand.
Pilot II	Pilot II is a single-pack alkyd based topcoat for both exterior and interior use. Topcoat in a traditional alkyd system suitable for steel and woodwork. Good weather and colour stability. Good hiding power.
Pioner Topcoat	Pioner Topcoat is a single-pack acrylic resin based topcoat. Finishing coat for protection of steel and concrete in a variety of climatic conditions, exterior and interior.
Vinyguard 88	Vinyguard Silvergrey 88 is a single-pack quick drying, modified vinyl primer. Also as a tie coat or as a sealer for an antifouling system. Can also be used as a primer/touch-up primer under alkyd and acrylic coatings for steel structures.

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PAINTING SYSTEMS FOR Steel Vessels

BELOW WATERLINE

MINIMUM SURFACE PREPARATION

- Fouling, loose paint and heavy corrosion to be removed by scraping. Oil, grease, salts, fouling and other contaminates etc to be removed with a suitable detergent and high pressure fresh water wash.

- All existing antifoul should be wet or dry sanded to a minimum 80g profile. All unstable antifoul should be removed. Rinse with fresh water. - Corroded and damaged steel areas, and areas where the existing primer is not stable to be power-tool cleaned to minimum St. 2 (ISO

2 Consider and damaged steel areas, and areas where the existing primer is not stable to be power-tool cleaned to minimum St. 2 (ISO 8501-1:2007), grinding with 24g-36g discs to remove this and expose fresh steel. Edges to remaining intact antifoul and/or primer to be feathered, if not removing system completely.

- Blow down surface with dry, filtered air to remove filings from steel and wipe clean the sanded paint surface. Commence initial primer application to exposed, clean steel before surface is contaminated, and in any event within 4 hours.

Present System	Primer Coat to exposed steel	Coats x DFT um	Intermediate Coat to primed areas	Coats x DFT um	Antifoul Coat	Coats x DFT um
Epoxy / Vinyl	Jotamastic 90 or Jotacote 605	1 x 250 1 x 250	Safeguard Universal ES or Vinyguard Silvergrey 88	1 x 150 1 x 80	Seavictor 40 or Seaguardian or Seavictor 50	2-3 x 100 1-2 x 100 1-2 x 100

Excess and/or aged coats of antifoul can become unstable over time, impeeding the antifoul coating and vessel performance. A Jotun representative can advise on the condition of your vessel's below waterline system and offer recommendations once it is slipped. Not all antifoul coatings are compatible. Selection of antifoul and its performance can vary according to vessel type, vessel use, film thickness applied, etc. A Jotun representative can advise options if you wish to change products or are unsure of your existing system.

Typical Dry Film Thickness in Microns (DFT um) recommended to achieve by spray application. When brushing/rolling, extra coats may be required to achieve the specified film thickness. Brushing/rolling application achieves on average 80um DFT per coat.

The systems shown are minimum examples of the many options available and only outline re-application to an existing system. Jotun can further advise on the system which offers the most economical and effective solution to your needs. Contact Jotun per reverse-side details.



Products	Description
Jotacote 605 Fast Cure	Jotacote 605 is a two-pack high build, high solids surface-tolerant epoxy coating. For protection of steel, galvanized steel, aluminium and concrete in aggressive locations.
Jotamastic 90	Jotamastic 90 is a two-pack surface-tolerant, abrasion resistant, high solids, polyamine cured epoxy mastic coating. Gives excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur. Can be tinted to almost any colour using Jotun MCI system
Safeguard Universal ES	Safeguard Universal ES is a two-pack epoxy vinyl-based coating. Safeguard Universal ES is normally used as an anti-corrosive undercoat for various paint systems or as a sealer coat on antifouling. It provides very good adhesion for self-polishing antifoulings.
Seaguardian	Seaguardian is a tin-free ablative antifouling based on a copolymer binder for low and high speed vessels.
Seavictor 50	Seavictor 50 is a tin-free self-polishing antifouling based on a copolymer binder for low speed vessels. It has an additional active agent for improved control of algae.
Seavictor 40	Seavictor 40 is a tin-free entry-level antifouling for low speed vessels.
Vinyguard 88	Vinyguard Silvergrey 88 is a single-pack quick drying, modified vinyl primer. Also as a tie coat or as a sealer for an antifouling system. Can also be used as a primer/touch-up primer under alkyd and acrylic coatings for steel structures.

Please refer to relevant Technical Data Sheets (TDS) for further information, recoating and curing conditions, or contact Jotun for details. Unless otherwise agreed in writing, all product supplied and technical advice given by us are subject to our standard terms and conditions of sale. In the event that supplies are made and technical advice is given by one of our associated companies or dealers, then such supplies and technical advice shall be subject to the standard terms of sale of that company, a copy of which is available upon request. The given data must be considered as guidelines only.

COASTAL MARINE



	PRIMERS & ANTI	CORROSIVES		торсо	DATS		ANTIFOULINGS			
ERGREY 88	modified viny above waterli and Aluminiu primer, but a	ack quick drying, non tar primer, suitable for below & ne use. Mainly used on Steel um surfaces as a touchup iso certified as a sealer coat ngs containing TBT.	R R R R R R R R R R R R R R R R R R R		I ULTRA M)	A high performance self-polishing & self- smoothening antifouling coating, based on hydrolyzing organosilyl polymer as binder. This binder dissolves in sea-water at a rate permitting the continuous exposure of fresh antifouling.				
VINYGUARD SILVERGREY 88	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	Single Pack Jotun No. 7 5L & 20L Aluminium No Flat	IMPERITE	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(3) : B(1) by Volume Jotun No. 19 4L & 20L packs White, Black Yes, AS2700/Jotun std. High Gloss	SEAQUANTUM ULTRA (PREMIUM)	Operational: Life: Spread Rate: Mix Ratio: Thinner: Pack Sizes Colours: Launch Time: Vessel Speed:	Up to 60 months Effective sevice 5sqm per litre, per coat Single Pack Jotun No. 7 20L Lt Red, Dk Red Up to 30 Days		
/ERSAL ES	A two-pack covinyl-based co	prrosion preventing epoxy pating.	AX, XP, Flexi	polyurethan retention. airless primers/un	k acrylic modified recoatable ne, with good gloss & colour Suitable for application by spray over epoxy dercoats, or by brush/roller for s. Cures at low temperatures.	R 50	copolym operatin Steel G addition	If-polishing antifouling based on a er binder, suitable for vessels g in global waters, constructed of RP or Timber. Seavictor 50 has an al active agent giving improved of green algae.		
SAFEGUARD UNIVERSAL ES	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(5) : B(1) by Volume Jotun No. 17 5L & 18L packs Plum No Flat	HARDTOP Ultra, AX, XP, Flexi	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(4) : B(1) by Volume Jotun No. 10 5L & 20L packs White, Black Yes, AS2700 & Jotun Std Gloss	SEAVICTOR	Operational: Life: Spread Rate: Mix Ratio: Tack Sizes Colours: Launch Time: Vessel Speed:	Up to 48 months Effective service 5 sqm per litre, per coat Single Pack Jotun No. 7 10L Red, Black, Blue Between 8 & 48 hours Up to 20 Knots		
R	cleaned steel. corrosion prote environments.	c primer for use on blast Barrier provides superior ection in a range of Typically used under an as part of a complete	ULTRA	polyurethan for applicat such as Pe gloss and o	acrylic modified recoatable ne. Hardtop Ultra is suitable ion over an epoxy primer enguard HB with excellent solour retention. Suitable for by conventional spray, brush	DIAN	copolym operatin	ative antifouling based on a er binder, suitable for vessels g in global waters, constructed of RP or Timber.		
BARRIER	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(3) : B(1) by Volume Jotun No. 17 4L & 9L packs Grey No Flat	накртор (Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(4) : B(1) by Volume Jotun No. 10 5L & 20L packs White, Black Yes, AS2700 & Jotun std. High Gloss	SEAGUARDIAN	Operational: Life: Spread Rate: Mix Ratio: Thinner: Pack Sizes Colours: Launch Time: Vessel Speed:	Up to 36 months Effective service 5sqm per litre, per coat Single Pack Jotun No. 7 5L & 10L Red, Black, Blue Between 8 \$ 48 hours 10 to 30 Knots		
ric 90	solids epoxy- in high film anticorrosive s and atmospl	erant abrasion resistant high based primer/topcoat. Used thickness's as part of the system for steel, in immersed neric conditions. Usually ess spray, with brush or roller s.	=	topcoat for suitable fo	ack, reinforced alkyd based exterior and interior use, r brush and roller application, good weather and colour	R 40	Is a tin-free self-polishing antifouling la copolymer binder for low speed ves			
JOTAMASTIC	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(6): E(1) by Volume Jotun No. 17 4.7L & 18.7L packs 4.4L & 17.4L packs - Al White, Black, Grey No Semi Gloss	ыгот	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	Single Pack Jotun No. 2 5L & 20L White, Black Yes, AS2700 & Jotun std Gloss	SEAVICTOR	Operational: Life: Spread Rate: Mix Ratio: Thinner: Pack Sizes Colours: Launch Time: Vessel Speed:	Up to 30 months Effective service 5sqm per litre, per coat Single Pack Jotun No. 7 10 L Dark Red, Black Between 8 & 48 hours Up to 20 Knots		
PENGUARD HB	sands easily a topcoats. May prepared GRF is suitable for		PIONER TOP COAT	topcoat for anti-corros is quick dry resistance temperatu		AFE ULTRA UM)	performa on a hyd binder d permittir antifouli			
PENGU	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	A(4) : E(1) by Volume Jotun No. 17 4L & 20L Packs Off White No Flat	PIONER .	Mix Ratio: Thinner: Pack Sizes: Colours: Tintable: Finish:	Single Pack Jotun No. 7 5L & 20L White, Black Yes, AS2700 & Jotun std Gloss	SEASAFE & SEASAFE (ALUMINIUM)	Operational: Life: Spread Rate: Mix Ratio: Thinner: Pack Sizes Colours: Launch Time:	Up to 30 months Effective service 5 sqm per litre, per coat Single Pack Jotun No. 7 5L & 10L Black, Blue Between 8 & 48 hours		
							Vessel Speed:	Up to 30 Knots		
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Jotun Australia Pty Ltd



COATINGS SYSTEMS GUIDE – Ready Reckoner

Above Waterline / Topside Areas

Substrate	Primer	DFT μm	Intermediate	DFT μm	*Finish	DFT μm	*Finish (option 2)	DFT μm	*Finish (option 3)	DFT μm	
STEEL CRAFT											
Single Pack	Alkyd Primer or Vinyguard S/G 88	2x50 60	Alkyd Primer or Vinyguard S/G 88	2x50 40	Pilot II Pilot II or Pioner Topcoat	2x40 40 40		0			
Two Pack (epoxy)	Jotamastic Range Jotacote 605	200	Penguard HB (sandable)	125	Hardtop Range	40	Hardtop Range	50	Imperite 300	2x40	
Two Pack (zinc rich)	Barrier	50	Jotamastic Range Jotacote 605		Hardtop Range	40	Hardtop Range	50	Imperite 300	2x40	
			ALU	JMINI	JM						
Two Pack	Penguard HB or Penguard Special	75 125	Penguard HB or Penguard Special	125 125	Hardtop Range	40-50	Imperite 300	2x40			
			G.R.P. CRA	AFT (F	ibreglass)						
Single Pack	Alkydprimer (white)	40	Alkydprimer	40	Pilot II	40	Pioner Topcoat	40			
Two Pack	Penguard HB	125	Penguard HB	125	Hardtop Range	40-50	Imperite 300	2x40			
	TIMBER										
Single Pack	Alkydprimer	50 50	Alkydprimer	2x50	Pilot II	40					
Two Pack	Penguard HB	125	Penguard HB (sandable)	125	Hardtop Range	40-50	Imperite 300	2x40			

Below Waterline / Underwater Hull Areas

Substrate	Primer	DFT μm	Intermediate	DFT μm	Tiecoat	DFT μm	*Antifouling	*Antifouling	
		A/F selection & DFT's depend on performance							
Single Pack	Vinyguard S/G 88	75	Vinyguard S/G 88	75	Vinyguard S/G 88	74		s – selection listed below.	
Two Pack (epoxy) Option 1	Jotamastic Range	150	Jotamastic Range	150	Safeguard Universal ES	50	Seaguardian		
Two Pack (epoxy) Option 2	Jotamastic Range	200			Safeguard Universal ES	150		Ablative	
	G.R.	P. CR	AFT (fiberglas	s)			Seavictor 50 / 40 Tin Fee Self Polishing		
Single Pack	Vinyguard S/G 88	60	Vinyguard S/G 88	60	Vinyguard S/G 88	50	SeaQuant	um Ultra S	
Two Pack	Penguard	150			Safeguard Universal ES	100	The Ultimate	e Fuel Saver	
		7	IMBER				SeaQuantum Ultra is not to be applied over Single Pack Primers and Tie Coats.	to be applied over Single and Tie Coats	
Single Pack	Alkydprimer Vinyguard 88 SG	50	Vinyguard S/G 88	50	Vinyguard S/G 88	50			
Two Pack	Penguard HB	125	Penguard HB	125	Vinyguard S/G 88	50			
		AL	UMINIUM						
Two Pack Option 1 Repair Specification	Penguard HB or Jotacote 605	150	Optional Penguard HB	тва	Safeguard Universal ES	100	ingred SeaQuan	litional anti algae biocide lient or cum Ultra** e Fuel Saver.	
Two Pack Option 2 Newbuild Specification	Jotacote 605 or Jotacote Universal	150			Safeguard Universal ES	100	** provided all surfac	es are suitably primed	

***Note:** Refer over for Antifouling options.

** Advice given is a guide only, please consult Jotun for specific advice, and most appropriate system for your vessel. *** Jotun has a policy of continual development and all systems should be confirmed by your local representative before application