Compliance with the

MARINE COATINGS

International Marine Regulations





GSPC Heavy Industrial & Marine Coatings

Under IMO, ABS, Solas, Marpol, MarED, ISO, PSPC, Navsea and IACS Regulations

International Marine Regulators

The Organizations below are responsible for the management and control of the international marine regulations for the Marine coatings industry.



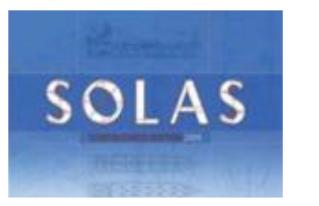
International maritime organization (IMO): Specialize agency of the United nations Responsible for measures to improve the safety and security of international shipping and to prevent maritime pollution from ships. Group of 167 countries that sign treaties regarding building, operation and maintenance of sea-going vessels.



America bureau of shipping (ABS): member of the international association of classification societies (IACS). It's the third largest classification society in the world based on gross tonnage, ABS currently leads the market on new building orders. Its classed fleet comprises more than 11,000 vessels of various types, aggregating in excess of 175m gross tons.



International Organization for Standardization (ISO): responsible for the ISO 9000, ISO 14000, ISO 27000, ISO 22000 and other international management standards. There is a great deal of similarity between the SSPC, BS(British Standard) and ISO cleaning standards. ISO 9501-1-1998: St, Sa, F1. and marine standards: Sa3, Sa2 ½, Sa2, St3, St2.



International Convention for the Safety of Life at Sea (SOLAS): The main objective is to specify minimum standards for the construction, equipment and operation of ships, compatible with their safety. Flag States are responsible for ensuring that ships under their flag comply with its requirements.

International association of classification societies (IACS): Dedicated to safe ships and clean seas,



OF CLASSIFICATION SOCIETIES

IACS makes a unique contribution to maritime safety and regulation through technical support, compliance verification and research and development. IACS consists of 13 member societies.



The Society for Protective Coatings (SSPC): The Society for Protective Coatings was founded in 1950 as the Steel Structures Painting Council, a non-profit professional society concerned with the use of coatings to protect industrial steel structures. In 1997, the name of the association was changed to The Society for Protective Coatings



Naval Sea system Command (NAVSEA): is comprised of command staff, headquarters directorates, affiliated Program Executive Offices (PEOs) and numerous field activities. Together, we engineer, build, buy and maintain ships, submarines and combat systems that meet the Fleet's current and future operational requirements.



The **Lloyd's Register Group** is a maritime classification society and independent risk management organization providing risk assessment and mitigation services and management

systems certification..

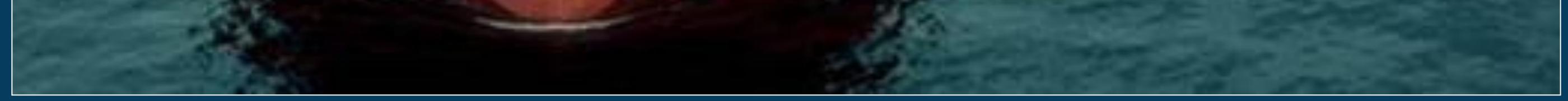
SWEDISH STANDARDS INSTITUTE Swedish Standards Institute (SIS): is a member-based, non-profit association specialized in national and international standards. The market leader in standards in Sweden, SIS is recognized for its professionalism, expertise and openness in relation to customers, employees, suppliers and partners



NACE International (NACE): is involved in every industry and area of corrosion prevention and control, from chemical processing and water systems, to transportation and infrastructure protection. NACE's main focus of activities includes cathodic protection, coatings for industry and material selection for specific chemical resistance.

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With a passion for performance, compliance of the Regulations and a well trained technical support staff, we deliver advanced marine coatings technologies

that keep the global shipping fleet protected for a lifetime at sea

GSPC heavy Industrial & Marine Coatings

GSPC Heavy Industrial & Marine Coatings



Advanced Technology

GSPC is the advanced technology, part of Anticorrosivos y Acabados AYA - Pinturas AYA, one of the leading Industrial & Marine Coatings Companies, and one of the Region largest Performance Coatings Manufacturer. Our Marine Coatings products lines are engineered to deliver proven performance in service whilst representing value for money. Environmental responsibility is a major feature of our Marine Coatings offer; particularly in terms of new product introductions and ongoing global research programmers. We are one of the technology leaders in IMO compliance Antifouling, Abrasion resistant coatings, IMO compliance Ballast tank coatings and advanced technology of foul release coatings for ships being built, repaired or maintained, following the ABS guide for the class notation in Coatings performance standards (CPS). With several manufacturing plants, sales operations in 10 countries and over 500 pick up points , we are one of the most reliable Marine Coatings supplier in the Region.

Leagues ahead on compliance

We have established a dedicated team of IMO PSPC Experts to



guide the customers through the IMO PSPC regulations. As a Marine Coatings Manufacturer, we have compliance to the Lloyds Register IMO PSPC Type Approval Certification ('TAC') for water ballast tanks, proven to remain in "good" condition for 15 years, we are well placed to guide you through IMO PSPC for crude oil tanks.

crude oil tanks. We continue to work hard with independent test houses to make sure our coating systems receive 'Type Approval Certification' - helping you to comply. Not only are we working for complete IMO compliance internally, but we continue to work with industry bodies (such as class societies, paint associations, ship owner associations and shipyard associations) in a number of external fora to offer advice and comment for the good of the industry.

Approved product development and manufacturing facilities

All our manufacturing sites, have compliance to class societies (who are members of the International Association of Classification Societies which is a prerequisite of IACS before they can issue a TAC. We don't stop there – We have manufacturing facilities ISO 9001 accredited, covering product development as well as manufacturing quality.

International Marine Regulations and Regulators



ISO Standards

-There is a great deal of similarity between the SSPC, BS (British Standard), and ISO cleaning Standards. -Specifiers should be aware of the exact meaning of the standards use due to slight differences in working.

ISO 9501-1-1988 is derived from Swedish SIS 0559900. It is broken down into three grades:

-St: Scraping and wire-brushing by mechanical and manual methods
 -Sa: Blast cleaning
 -F1: Flame cleaning (Not used in marine)

Typical ISO standard used in the Marine Industry

Sa3: Blast Cleaning to pure metal
Sa2 ½: Blast cleaning with at least 95% of the surface free of any residues
Sa2: Blast cleaning with at least 2/3 of the surface free of any residue



St3: Very thorough scraping and wire brushing, machine brushing, grinding
St2: Thorough scraping and wire brushing, grinding, etc.

International maritime Organization (IMO)

Specialized agency of the United nations Responsible for stipulating measurements to improve the safety and security of international shipping and to prevent maritime pollution from ships. A Group of 167 countries that sign treaties regarding building, operation and maintenance of sea-going vessels.

Safety of the Life at Sea (SOLAS)

The international Convention for the Safety of Life at Sea. A part of IMO, directly involved with marine coatings as part of their mission to specify minimum standards for safety.

SOLAS Coating Rules

Prevention of corrosion in structural members and tanks to reduce ship failure an avoid loss of life and spillage of cargo. Fire and smoke rating for interior coatings in living spaces.

Other IMO Coatings-Related conventions

Not use of Ban of tributyl Tin (TBT) effective in 2008 on AFS (Anti Fouling System) Performance Standards for Dedicated Seawater Ballast Tanks in all types of Bulk Carriers as adopted in December 2006





International Marine Regulations and Regulators



Performance Standards for Protective Coatings (PSPC)

Dedicated seawater ballast tanks in all types of ships (500 gt+) and double sided skin spaces of Bulk

Carriers (150 m+) New Building and maintenance coatings projects.

PSPC Coatings Technical File

Specification of the coatings system applied to the dedicated seawater ballast tanks and double sided skin spaces.

Record of the shipyard's and ship owner's coatings work. Detailed criteria for coatings selection, job specification, inspection, maintenance and repair.

PSPC coatings Basic System **Requirements**



Table 1 of the Basic coatings system requirements for cargo oil tanks of crude oil tankers and void spaces in bulk carriers and oil tankers.

This is a complete coatings specification

PSPC Coatings System Approval

Two tests are required:

- 1.- Simulated ballast tank conditions (time frame 180 days)
- 2.- Condensation chamber (on and after 180 days)

Results are documented and a statement of compliance or type approval certificate is issued if found satisfactory.

IMO PSPC Coatings Inspection Requirement

Inspection points and log book requirements (Annex 1 in section 6.2 inspection items) Quality coatings inspectors Compliance to NACE coatings inspector level 2, FROSIO inspector level III, or equivalent as verified by the IMO Administration.

Port State Control

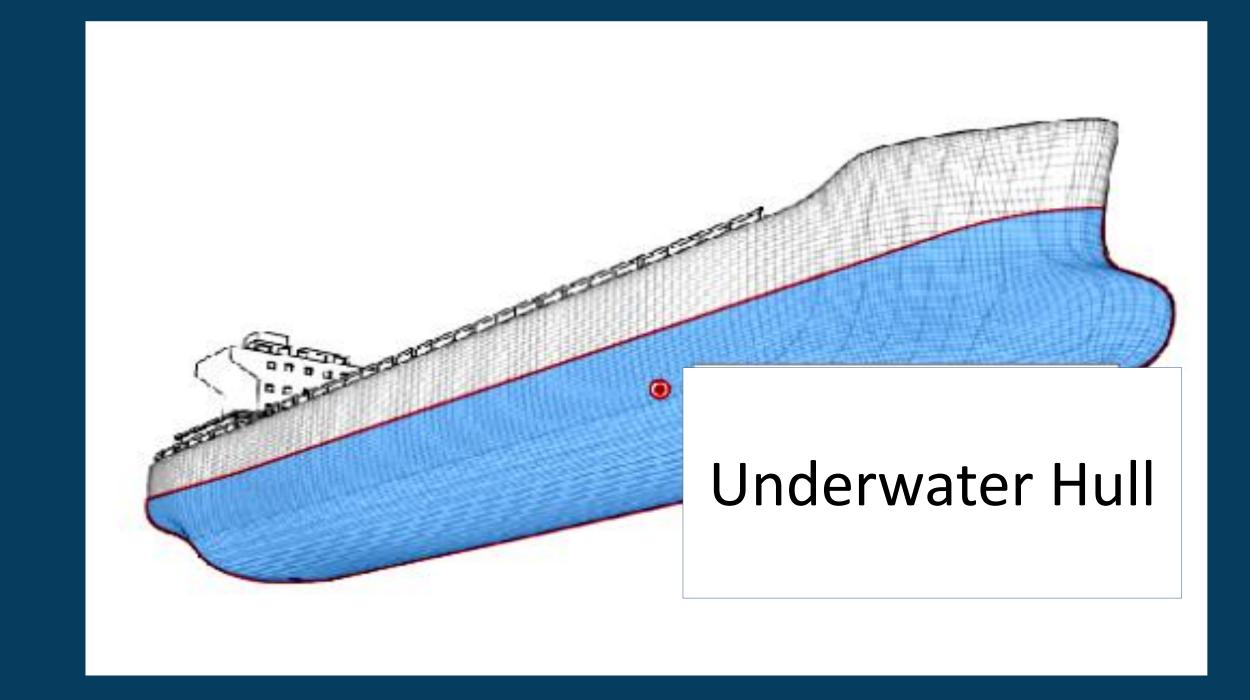
Allows any member country to board and inspect any vessel entering that country Vessel not in compliance with IMO regulations can be held up in the port state until brought into compliance.

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MARINE COATINGS

Underwater Hull

Underwater Hull (Submerged surfaces from keel to Deep load line receiving antifouling And Antifouling (submerged surfaces from keel to deep load line)



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Film Thickness
UH-1	Underwater Hull	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils 125 – 150 mic 5 – 6 mils
UH-2	(submerged surfaces from keel to deep load line	Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy	SSPC-SP10 Sa 2 ½	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
UH-3	receiving antifouling)	Ayapoxi 68 – High Technology Epoxy Ayapoxi 68 – High Technology Epoxy	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils 125 – 150 mic 5 – 6 mils
UH-4		Ayapoxi 87 TG – Glass flake Epoxy	SSPC-SP10 Sa 2 ½	250 – 300 mic 10 - 12 mils 400 – 500 mic 16 – 20 mils
		If an antifouling tie coat is required for systems UH-1, UH-2, Uh- 3 or UH-4, then apply the following after the second coat		
	Optional Tie Coat:	Ayapoxi 47 TC – Epoxy antifouling Tie Coat	Clean and Dry	50 – 75 mic 2– 3 mils

AF-1 60 Month service life

AF-2 60 Month service life

AF-3 36 Month service life

AF-4 36 Month service life Antifouling (Submerged surfaces from keel top deep loan line)

Ayafouling 56 AP – Self Polishing Antifouling Ayafouling 56 AP – Self Polishing Antifouling Ayafouling 56 AP – Self Polishing Antifouling

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Boot top:	2 x 125 mic	2 x 5 mils
Sides:	2 x 150 mic	2 x 6 mils
Flat bottom:	2 x 125 mic	2 x 5 mils
Boot top:	2 x 125 mic	2 x 5 mils
Sides:	2 x 150 mic	2 x 6 mils
Flat bottom:	2 x 125 mic	2 x 5 mils
Boot top:	2 x 75 mic	2 x 3 mils
Sides:	2 x 88 mic	2 x 3.5 mils
Flat bottom:	2 x 75 mic	2 x 3 mils
Doot top		
Boot top:	2 x 90 mic	2 x 3.6 mils
Sides:	2 x 110 mic	2 x 4.4 mils
Flat bottom:	2 x 90 mic	2 x 3.6 mils





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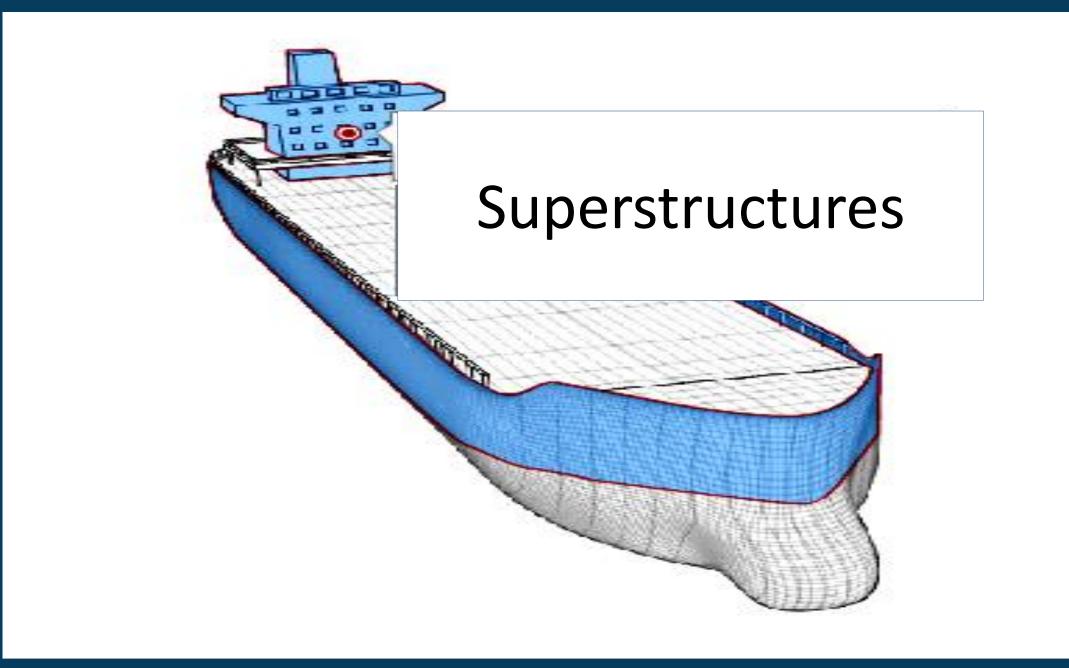
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Freeboard and External Superstructures

Superstructures from Boot top to rail, bulwarks, Houses, equipment and appurtenances, etc



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Fi	Im Thickness
SS-1	Freeboard and external Superstructure	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy and either:	SSPC-SP10 Sa 2 ½	100 – 150 mic 100 – 150 mic	4 – 6 mils 4 – 6 mils
	s (Boot top to	Ayapoxi 45 EA – Acrylic Epoxy Coating or:		50–75 mic	2– 3 mils
	rail, bulwarks, Houses,	Ayakron 66 HS – Aliphatic Polyurethane or:		50–75 mic	2– 3 mils
	equipment	Ayasilox 55 PX – Acrylic Polisiloxane		50 – 75 mic	2–3 mils
	and			250–375 mic	10 - 15 mils
SS-2	appurtenance s, etc.	Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy and either:	SSPC-SP10 Sa 2 ½	125 – 150 mic 125 – 150 mic	5 – 6 mils 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating or:		50–75 mic	2– 3 mils
		Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic	2–3 mils
SS-3		Ayapoxi 68 – High Technology Epoxy		250 – 325 mic	10 - 13 mils
33-3		Ayapoxi 68 – High Technology Epoxy and either:	SSPC-SP10 Sa 2 ½	125 – 150 mic 125 – 150 mic	5 – 6 mils 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating or:		50–75 mic	2– 3 mils
		Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic	2–3 mils
SS-4		Ayazinc 70 Z– Zinc Rich Epoxy Primer Ayapoxi 83 TL – Surface Tolerant Epoxy Ayasilox 90 PX – Epoxy Polisiloxane	SSPC-SP10 Sa 2 ½	250 – 325 mic 75 – 100 mic Stripe 125 - 150 mic	10 - 13 mils 3 – 4 mils Stripe 5 – 6 mils
				200–250 mic	8 - 10 mils
SS-5		Ayapoxi 83 TL – Surface Tolerant Epoxy Ayasilox 90 PX – Epoxy Polisiloxane	SSPC-SP10 Sa 2 ½	100 – 150 mic 125 - 150 mic	4–6 mils 5–6 mils
				225 – 300 mic	9 - 12 mils





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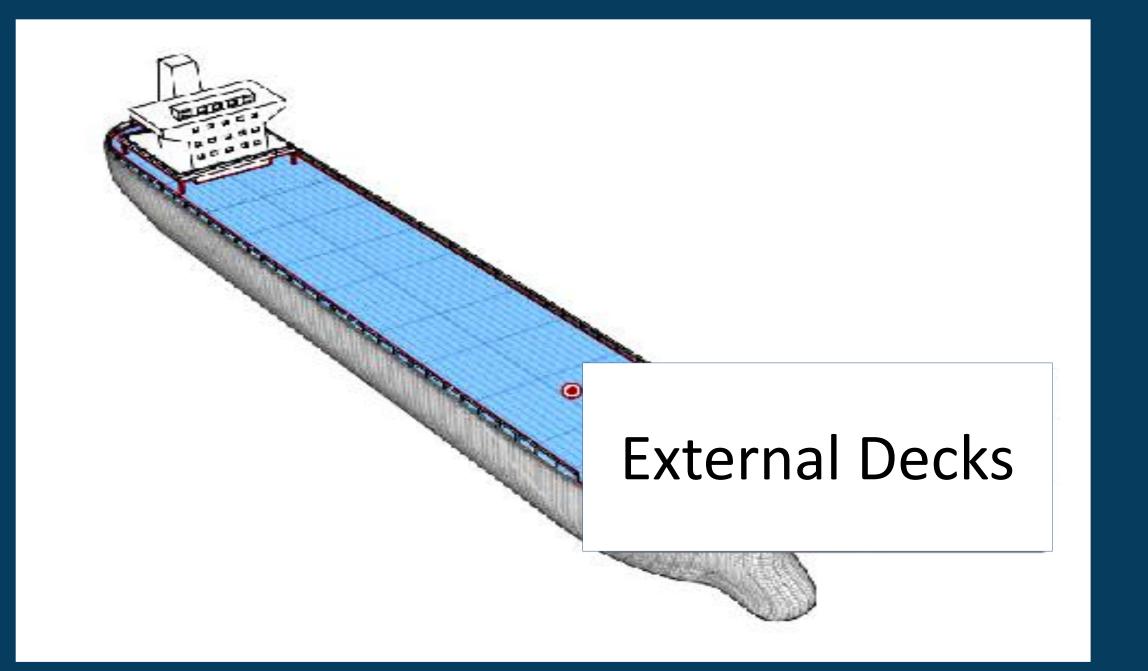
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External Decks

Weather decks, passageways, vehicular traffic, ramps, etc



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Fi	Im Thickne
ED-1	External Decks (weather	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy Optional:	SSPC-SP10 Sa 2 ½	100 – 150 mic 100 – 150 mic	4 – 6 mils 4 – 6 mils
	decks, passageways,	Ayapoxi 45 EA – Acrylic Epoxy Coating or:		50–75 mic	2– 3 mils
	vehicular	Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic	2– 3 mils
ED-2	traffic, ramps, etc.)	Ayapoxi 68 — High Technology Epoxy Ayapoxi 68 — High Technology Epoxy Optional:	SSPC-SP10 Sa 2 ½	250 – 375 mic 125 – 150 mic 125 – 150 mic	10 - 15 mils 5 – 6 mils 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating		50–75 mic	2– 3 mils
		or: Ayakron 66 HS – Aliphatic Polyurethane		50–75 mic	2– 3 mils
				250 – 325 mic	10 - 13 mils
ED-3		Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy Optional:	SSPC-SP10 Sa 2 ½	125 – 150 mic 125 – 150 mic	5 – 6 mils 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating		50–75 mic	2– 3 mils
		or: Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic	2– 3 mils
		Ayazinc 70 Z– Zinc Rich Epoxy Primer		250 – 325 mic	10 - 13 mils
ED-4		Ayapoxi 70 – High Performance Epoxy Optional:	SSPC-SP10 Sa 2 ½	75 – 100 mic 125 – 150 mic	3 –4 mils 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating		50–75 mic	2– 3 mils
		or: Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic	2– 3 mils
ED-5		Ayapoxi 87 TG – Glass flake Epoxy	SSPC-SP10 Sa 2 ½	250 – 325 mic 400 – 500 mic	10 - 13 mils 16 –20 mils
ED-6		Ayalkyd 60 PA – Alkyd Primer Ayalkyd 60 PA – Alkyd Primer	SSPC-SP10 Sa 2 ½	75 – 100 mic 75 – 100 mic 50 – 75 mic	3–4 mils 3–4 mils 2– 3 mils
		Ayalkyd 45 – Alkyd Top Coat			2– 5 mils 10 - 13 mils
	Note:	Ayalkyd 60 PA – Alkyd Primer	Sa 2 1/2	50 – 75 mic 250 – 325 mic	2







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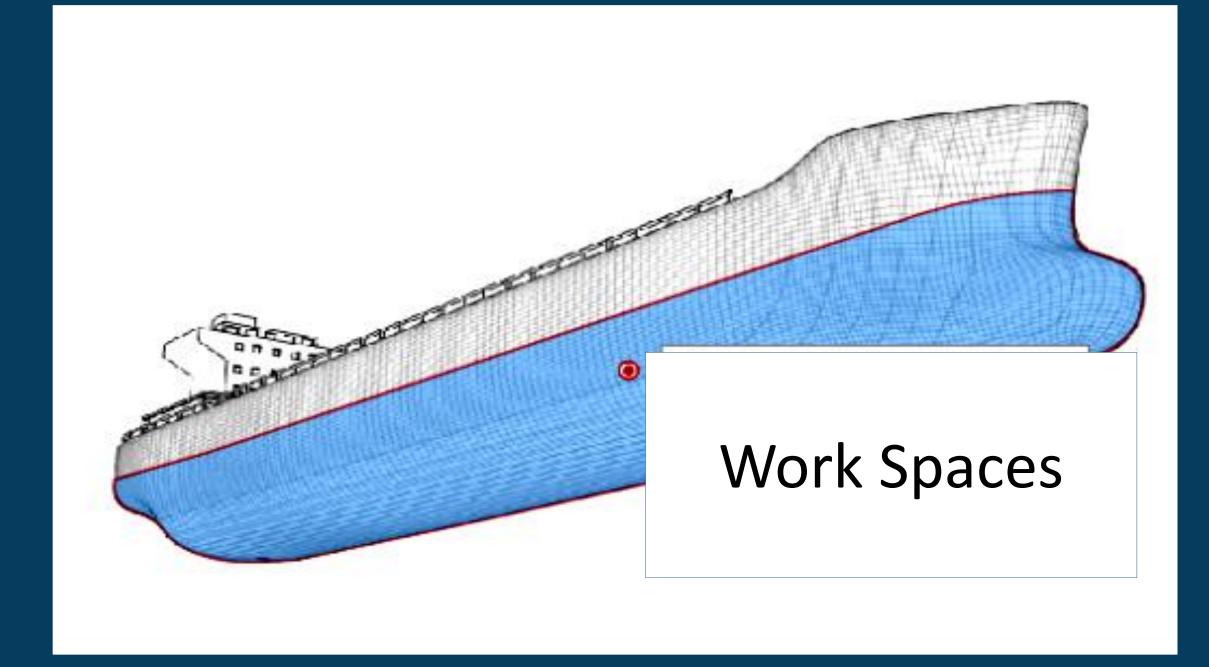
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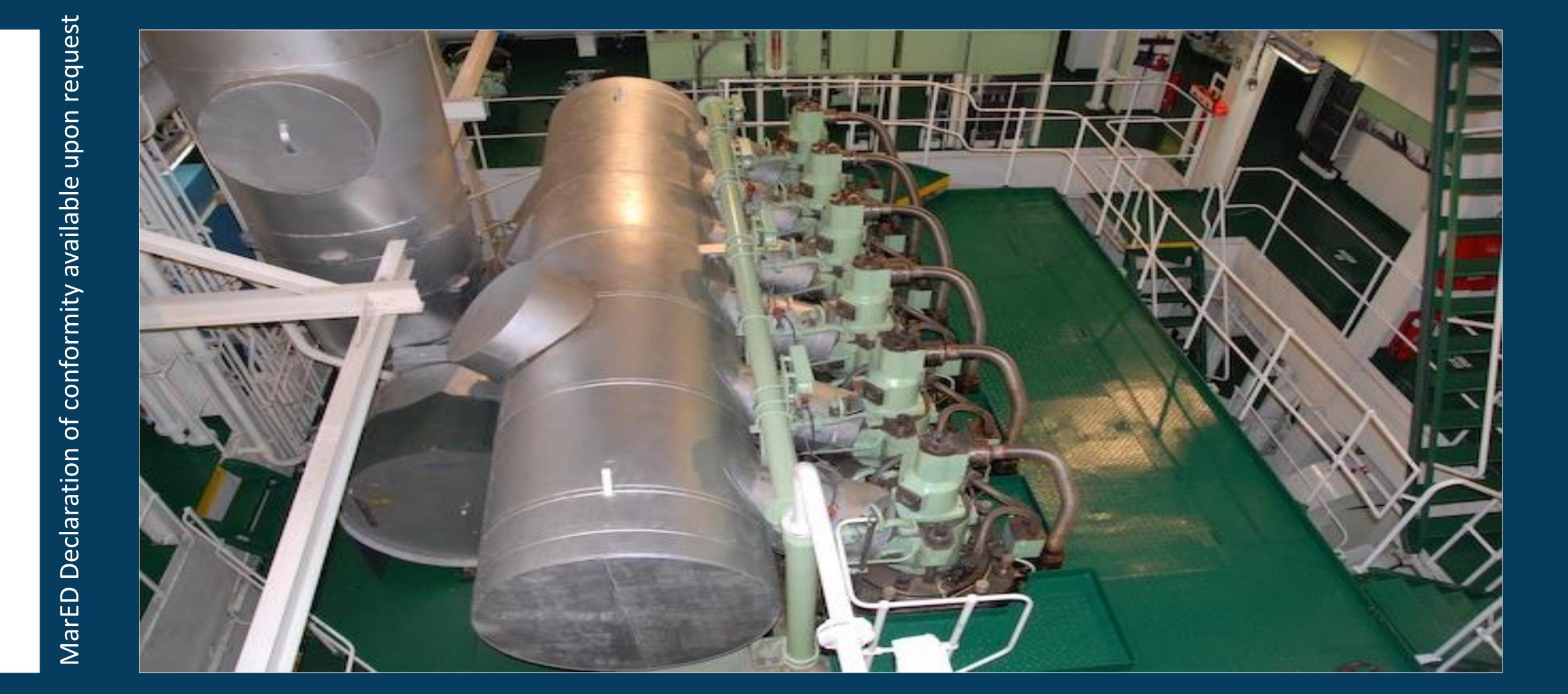
Work Spaces

Engine room, Machinery spaces, galley And accommodations



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Film Thickness
WS-1	Work Spaces	Ayapoxi 83 TL – Surface Tolerant Epoxy	SSPC-SP10	100 - 150 mic $4 - 6 mils$
	(Engine room,	Ayapoxi 83 TL – Surface Tolerant Epoxy	Sa 2 1/2	100 – 150 mic 4 – 6 mils 200 – 300 mic 8 - 12 mils
WS-2	Machinery	Ayapoxi 68 – High Technology Epoxy	SSPC-SP10	100 – 125 mic 4 – 5 mils
	spaces, galley And	Ayapoxi 68 – High Technology Epoxy	Sa 2 ½	$\begin{array}{ c c c c c } \hline 100 - 125 & \text{mic} & 4 - 5 & \text{mils} \\ \hline 200 - 250 & \text{mic} & 8 - 10 & \text{mils} \\ \hline \end{array}$
WS-3	accommodations.	Ayapoxi 70 – High Performance Epoxy	SSPC-SP10	100 – 125 mic 4 – 5 mils
	Systems WS-3 and WS-4 are	Ayapoxi 70 – High Performance Epoxy	Sa 2 ½	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
WS-4	available with	Ayalkyd 60 PA – Alkyd Primer		75 – 100 mic 3 – 4 mils
	SOLAS approval)	Ayalkyd 45 – Alkyd Top Coat		50 - 75 mic $2 - 3$ mils
WS-5		$\Delta x = a + i = 0$		125–175 mic 5-7 mils
VVJ-J		Ayapoxi 83 TL – Surface Tolerant Epoxy and either:	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating		50 – 75 mic 2– 3 mils
		or: Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic 2– 3 mils
		or: Ayasilox 55 PX – Acrylic Polisiloxane		50 – 75 mic 2– 3 mils
		ryddior 33 i'r riefyne i ondiordife		175 – 225 mic 7 – 9 mils
WS-6		Ayapoxi 68 – High Technology Epoxy and either:	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating or:		50 – 75 mic 2– 3 mils
		Ayakron 66 HS – Aliphatic Polyurethane or:		50 – 75 mic 2– 3 mils
		Ayasilox 55 PX – Acrylic Polisiloxane		50 – 75 mic 2– 3 mils
				175 – 225 mic 7 – 9 mils
WS-7		Ayapoxi 70 – High Performance Epoxy and either:	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils
		Ayapoxi 45 EA – Acrylic Epoxy Coating		50 – 75 mic 2– 3 mils
		or: Ayakron 66 HS – Aliphatic Polyurethane		50 – 75 mic 2– 3 mils
				175–225 mic 7–9 mils





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 Heavy Industrial & Native Coatings

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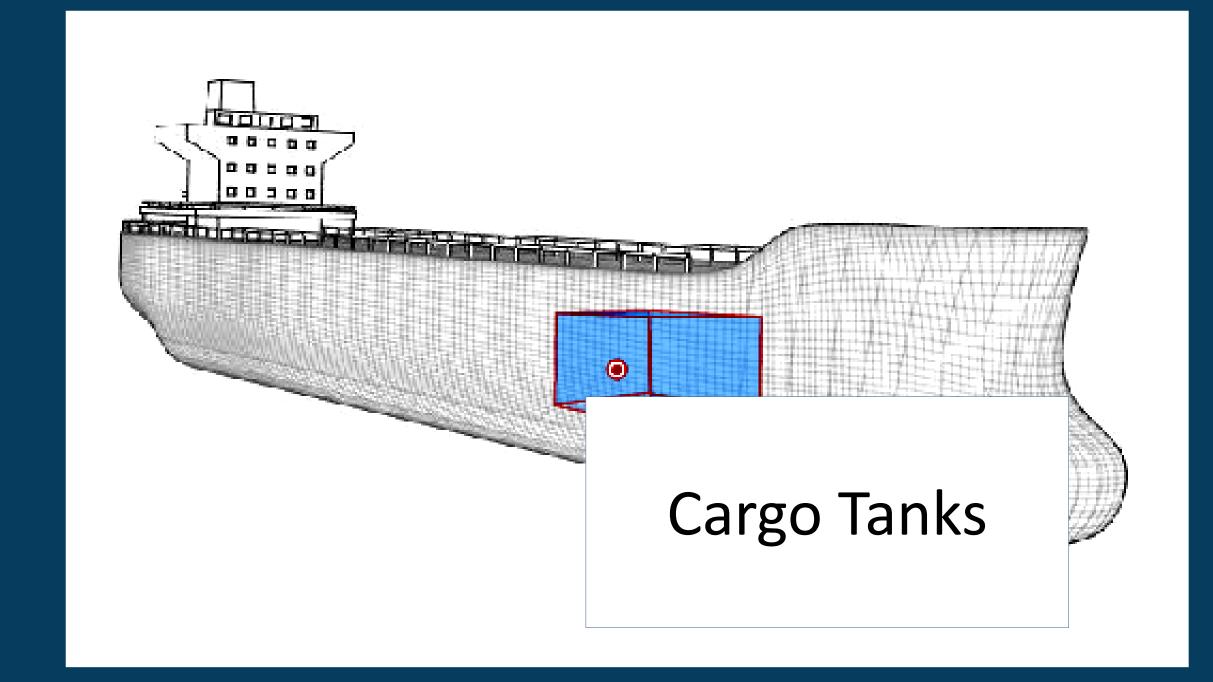
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Cargo Tanks Tanks for cargo



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Film Thickness
CT-1	Cargo Tanks (If carriage of highly aggressive cargo is	Ayapoxi 54 EN – Epoxy Novolac Tank Lining Ayapoxi 54 EN – Epoxy Novolac Tank Lining Ayapoxi 54 EN – Epoxy Novolac Tank Lining Ayapoxi 54 EN – Epoxy Novolac Tank Lining	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils Stripe Stripe Stripe Stripe 125 – 150 mic 5 – 6 mils 200 – 300 mic 8 - 12 mils
CT-2	intended, specify the coating system utilizing three full coat to obtain	Ayapoxi 54 EN – Epoxy Novolac Tank Lining Ayapoxi 54 EN – Epoxy Novolac Tank Lining	SSPC-SP10 Sa 2 ½	$\begin{array}{cccc} 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ Stripe & Stripe \\ 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ Stripe & Stripe \\ 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ 300-375 \mbox{ mic } 12-15 \mbox{ mils} \end{array}$
CT-3	maximum performance. Contact GSPC Technical Service for chemical	Ayapoxi 64 EF – Epoxy Phenolic Tank Lining Ayapoxi 64 EF – Epoxy Phenolic Tank Lining Ayapoxi 64 EF – Epoxy Phenolic Tank Lining Ayapoxi 64 EF – Epoxy Phenolic Tank Lining	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils Stripe Stripe Stripe Stripe 125 – 150 mic 5 – 6 mils 250 – 300 mic 8 - 12 mils
CT-4	resistance list	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils Stripe Stripe 125 – 150 mic 5 – 6 mils 250 – 300 mic 10 - 12 mils
		Only for new constriction, not for maintenance:		
CT-5		Ayazinc 62 Z – Inorganic Zinc Coating	SSPC-SP10 Sa 2 ½	75 – 100 mic 3 –4 mils





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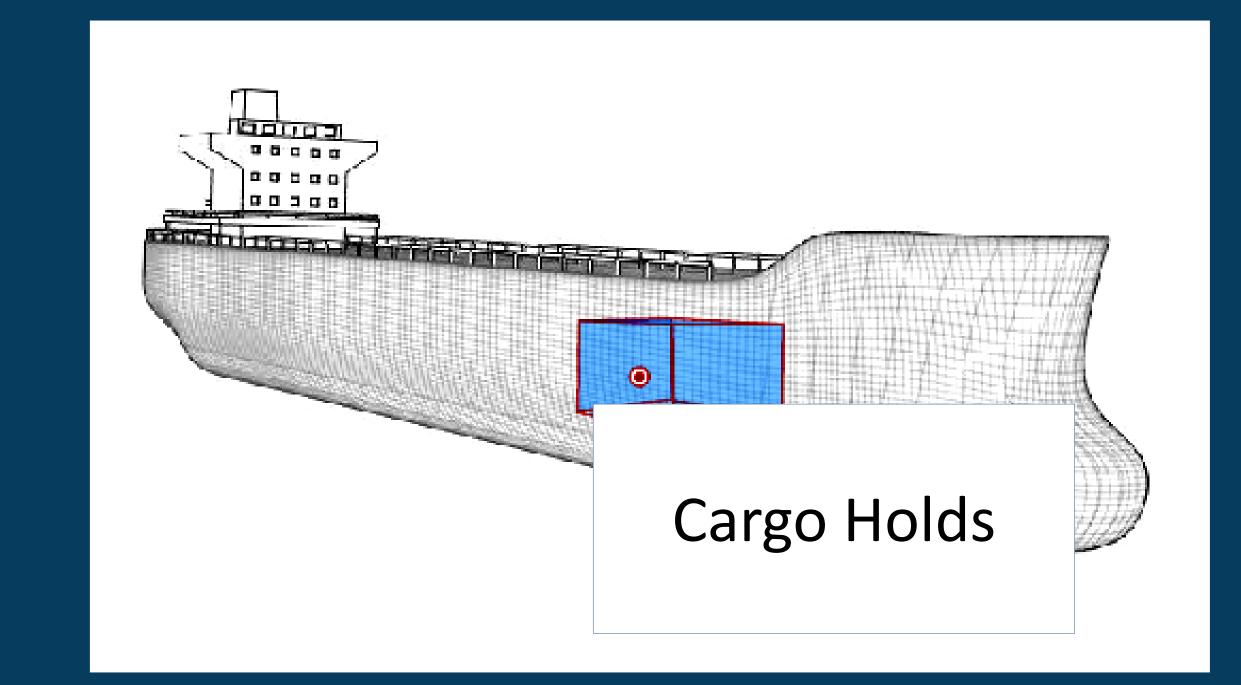
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Cargo Holds

Cargo areas, spaces for carrying cargo



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Film Thickness	
CH-1	Cargo Holds	Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy	SSPC-SP10 Sa 2 ½	$\begin{array}{cccc} 125 - 150 & \text{mic} & 5 - 6 & \text{mils} \\ & & \text{Stripe} & & \text{Stripe} \\ 125 - 150 & \text{mic} & 5 - 6 & \text{mils} \\ & & 250 - 300 & \text{mic} & 10 - 12 & \text{mils} \end{array}$	
CH-2		Ayapoxi 68 — High Technology Epoxy Ayapoxi 68 — High Technology Epoxy Ayapoxi 68 — High Technology Epoxy	SSPC-SP10 Sa 2 ½	$\begin{array}{cccc} 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ Stripe & Stripe \\ 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ 250-300 \mbox{ mic } 10-12 \mbox{ mils} \end{array}$	
CH-3		Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy	SSPC-SP10 Sa 2 ½	$\begin{array}{cccc} 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ Stripe & Stripe \\ 125-150 \mbox{ mic } 5-6 \mbox{ mils} \\ 250-300 \mbox{ mic } 10-12 \mbox{ mils} \end{array}$	
CH-4		Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy	SSPC-SP10 Sa 2 ½	Stripe Stripe 200 – 250 mic 10 - 12 mils	

CH-5	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy Ayakron 73 HS – Aliphatic Polyurethane	SSPC-SP10 Sa 2 ½	125 – 150 mic 5 – 6 mils Stripe Stripe 100 – 125 mic 4 – 5mils 225 – 375 mic 9 - 11 mils
CH-6	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 87 TG – Glass flake Epoxy	SSPC-SP10 Sa 2 ½	StripeStripe300 - 400 mic12 - 16 mils





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This is in ratify that is compliance with the Creasil Directive 999338C of 20 December 1996 on market opsigners), as annulate by Commission Directives 998098C, 20022338C, 20027358C, 200283426C, 20089278C and 2008288C of the December Parkament and of the Creasil, antiSV-00134abud Recognition Agreement 20043298C.

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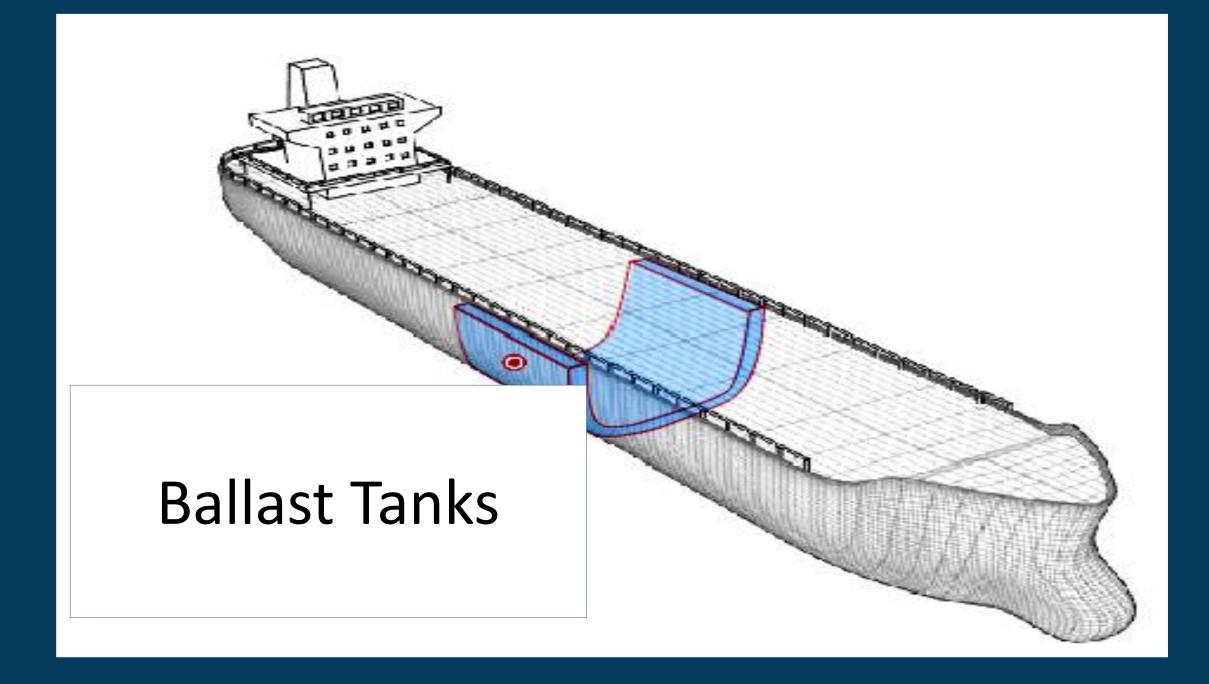
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MARINE COATINGS

Ballast Tanks



System Reference	Area	Coatings System	Surface Preparation	Specify Dry Film Thickness	
BT-1	Ballast Tank	Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy Ayapoxi 83 TL – Surface Tolerant Epoxy	SSPC-SP10 Sa 2 ½	$\begin{array}{cccc} 125-150 \mbox{ mic } & 5-6 \mbox{ mils} \\ Stripe & Stripe \\ 125-150 \mbox{ mic } & 5-6 \mbox{ mils} \\ 250-300 \mbox{ mic } & 10-12 \mbox{ mils} \end{array}$	
BT-2		Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy Ayapoxi 70 – High Performance Epoxy	SSPC-SP10 Sa 2 ½	$125 - 150 \text{ mic} \qquad 5 - 6 \text{ mils}$ $Stripe \qquad Stripe$ $Stripe \qquad Stripe$ $125 - 150 \text{ mic} \qquad 5 - 6 \text{ mils}$ $250 - 300 \text{ mic} \qquad 8 - 12 \text{ mils}$	
BT-3		Ayapoxi 68 — High Technology Epoxy Ayapoxi 68 — High Technology Epoxy Ayapoxi 68 — High Technology Epoxy Ayapoxi 68 — High Technology Epoxy	SSPC-SP10 Sa 2 ½	$125 - 150 \text{ mic} \qquad 5 - 6 \text{ mils}$ $5 \text{ stripe} \qquad 5 \text{ tripe}$ $5 \text{ tripe} \qquad 5 \text{ tripe}$ $125 - 150 \text{ mic} \qquad 5 - 6 \text{ mils}$ $250 - 300 \text{ mic} \qquad 8 - 12 \text{ mils}$	







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Follow the appropriate surface preparation method according ISO, SSPC or NACE to reach the longest term durability for your coatings system



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