SPAF 68

DESCRIPTION

ThinTech Coatings SPAF 68 is a self-polishing, tin-free antifouling coating based on a specially developed mixture of polymers, pigmented with a combination of bio-based additives. The surface is self-abrasive through a carefully adjusted balance of hydrophobic and hydrophilic binders. This mechanism enables controlled leaching and allows easy recoating after service life. SPAF 68 is a long-life, self-polishing antifouling coating designed for vessels operating at slow to medium speeds that require extended docking intervals. It is suitable for new vessel construction and for upgrading existing long-life systems in the coastal marine industry, with a controlled erosion rate engineered to deliver highly effective, long-life protection against marine fouling. Its self-polishing nature also results in a smoother hull surface, reducing overall hull roughness and improving fuel consumption.

APPLICATIONS / SURFACES

Surfaces:	Steel ship hulls, new construction and existing long-life antifouling systems.
Applications:	Slow and medium speed vessels, marine and coastal vessel hulls, work vessels, and hull maintenance/upgrade projects.

CHARACTERISTICS

Finish	Matt	Flash Point	>25 °C
Colour Range	Red, Brown & Dark Brown	Volume Solids	55%
Wet Film Thickness	230 µm	Dry Film Thickness	125 µm
Dry Film Thickness Range	75 µm to 150 µm	Theoretical Coverage	4.4 m²/L
Standard Packing Sizes	20 L, 210 L, 1000 L	Thinner / Cleaner	TT 68



If you're a shipowner, yard, or applicator seeking long-life, fuel-efficient hull protection, look no further than SPAF 68's advanced self-polishing, tin-free antifouling technology and proven performance.

For more information:

info@thintechcoatings.com

SURFACE PREPARATION

The service life and performance of SPAF 68 is directly related to the degree of surface preparation, the existing paint system, and the thickness of the newly applied system.

Steel (New Construction)

SPAF 68 must be applied to steel that has been abrasive blasted and suitably primed. The steel must be abrasive blast cleaned to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. An average surface profile of 50 microns is acceptable, but this average should not exceed 75 microns. Apply a suitable primer immediately after blasting to prevent oxidation and recontamination of the steel surface; in case of oxidation or recontamination, re-blast to the required standard. Then complete the specified coating system by applying the subsequent coats, ensuring that the specified overcoating times of each coat are not exceeded. Ensure the surface to be overcoated is clean, dry, and free from dust, grease, oil, or any other surface contaminants.

Maintenance (Over Existing Self-Polishing Antifouling)

The surface to be coated must be dry and free from fouling, salts, and other contaminants. Remove salts and dirt by fresh water washing. Freshwater jet or scrape to remove all accumulated fouling and loose or flaking coatings. Corroded and/or damaged areas should be repaired first with an appropriate primer system. To avoid condensation of moisture onto the substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above the dew point.

Typical Coating Specification — Steel (New Construction)

Substrate	Surface Priming	2nd Coat	3rd Coat	4th Coat	5th Coat
Steel (New Construction)	THINTECH P 58	THINTECH 78	THINTECH 88	SPAF 68	SPAF 68

Life expectancy is difficult to specify as it is dependent on many factors beyond our control, such as vessel speed and sailing pattern, seawater quality, and temperature. The above coating specification should be used for guidance only. Consult your ThinTech Coatings sales representative for more information.

APPLICATION

1. Airless Spray

Tip Size	0.41 – 0.58 mm
Pressure	120 – 180 kg/cm²
Spray Angle	40 – 80 degrees
Volume of Thinner	0 – 5%

2. Brush or Roller

Suitable, but airless spray is preferred. Multiple coats may be required to achieve the specified dry film thickness. Volume of thinner: 0 – 5%.

Useful Information

Thinner	TT 68	Cleaner	TT 68
Storage	Store in a cool, dry, shaded area.		

TECHNICAL DATA

DRYING TIME (BY SUBSTRATE TEMPERATURE)

Substrate Temp.	Touch Dry	Hard Dry	Dry to Recoat	Min. Drying (Undocking)
15 °C	1 hour	8 hours	8 hours	16 hours
25 °C	1 hour	6 hours	6 hours	12 hours
35 °C	30 min	4 hours	4 hours	12 hours

Drying times will be affected by humidity, temperature, and increasing film thickness.

PHYSICAL & SHIPPING PROPERTIES

Wet Film Thickness	230 µm
Dry Film Thickness	125 µm
Recommended Dry Film Thickness Range	75 µm to 150 µm
Theoretical Coverage	4.4 m²/L
Volume Solids	55%
Flash Point	>25 °C
Finish	Matt
Colour Range	Red, Brown & Dark Brown
Standard Packing Sizes	20 L, 210 L, 1000 L

SAFETY PRECAUTIONS

This product is intended for use by professional applicators. As a general rule, avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, a dust mask, and gloves. Use barrier cream.

Ventilation	Ensure adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
Flammability	This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge.
In Case of Fire	Blanket flames with foam, carbon dioxide, or dry chemicals.

First Aid

Eyes	In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
Skin	Wash skin thoroughly with soap and water or an approved industrial cleaner. Do not use solvents or thinners. Seek immediate medical advice.
Inhalation	Remove to fresh air, loosen collar, and keep patient rested.
Ingestion	In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our Material Safety Data Sheet (MSDS).

STORAGE

Store in a cool, dry, shaded area, off the floor. Keep containers tightly closed.

CAUTION

For industrial and professional use only. Please refer to the Safety Data Sheet before use. ThinTech Coatings makes no other warranties. Recommendations are based on data believed to be reliable; the buyer must determine the suitability of the product for the intended use according to their own judgment and risk. Changes in the environment, process changes, or extrapolation of data may lead to unsatisfactory results. Published product data sheets are subject to change without notice — please contact a ThinTech Coatings representative to obtain current data sheets.

DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which they wish to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in light of our experience and continuous product development. For technical support and product guidance, consult your ThinTech Coatings sales representative. Always refer to the Material Safety Data Sheet (MSDS) for complete safety information before use.