



PRODUCT PROFILE

GENERIC DESCRIPTION

Hybrid Silicone-Acrylic, Anti-Condensation Coating for Marine Environments

COMMON USAGE

An innovative, protective, anti-condensation coating specifically designed for harsh marine environments. Ideal for reducing or eliminating corrosion caused by condensation on bulkheads, overheads, tanks, pipes, ductwork, and other areas within maritime vessels, including applications on steel and non-ferrous metal substrates. Its friendly spray-application characteristics ensure efficient production on broad, flat surfaces as well as complex geometries and hard-to-reach areas in tight, confined spaces.

Series 972 is a marine anti-sweat coating designed to control mold and moisture on vessels, including ships, ferries, tugboats, offshore vessels, and structures within commercial shipyards. This unique, water-based formulation contains a hydrophobic resin and particle blend that produce a durable, water-resistant system that reduces condensation-related hazards such as dripping, pooling, and wet surfaces. Additionally, biocides within the cured film aid in the prevention of mold and mildew growth, contributing to cleaner, more hygienic vessel interiors. The product's exceptionally low thermal conductivity also decreases surface temperatures on metal substrates, providing safe-touch heat protection that helps lower the risk of accidental contact burns.

Part of a corrosion-resistant coating system, Series 972 helps mitigate issues associated with corrosion under insulation (CUI), and is ABS certified, IMO compliant, and USCG approved.

COLORS

1272 Gray

FINISH

Matte

SPECIAL QUALIFICATIONS

Thermal Conductivity (ASTM C518 at 77°F): 0.049 W/m-°K or 0.3396 BTU-in/ft²-hr-°F. Approved by NAVSEA for Anti-Sweat under 009-32.

Series 972 complies with the IMO requirements for Bulkhead, Wall, and Ceiling applications in accordance with FTP Code IMO Parts 2 and 5.

USCG Approval 164.112/200/0. ABS Certificate Number 25-0417561-PDA.

COATING SYSTEM

PRIMERS

Steel: Series 1224 or approved epoxy primer

Aluminum & Non-Ferrous Metals: Self-priming

Note: Contact your Tnemec representative for additional information.

TOPCOATS

Contact your Tnemec representative for more information.

SURFACE PREPARATION

NON-FERROUS METAL

Series 972 can be applied directly to non-ferrous surfaces. The surface must be clean, dry, and contaminant free. Surface preparation recommendations will vary depending on substrate and exposure conditions. Consult the Series 972 Aerolon Marine Application Guide or contact Tnemec Technical Services.

ALL SURFACES

Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS

72% ± 2% (practical)

RECOMMENDED DFT

20 to 50 mils (510 to 1,270 microns) per coat.

Maximum IMO total DFT: 150 mils (3,810 microns)

Note: Thickness recommendations will vary depending on specific project requirements and environmental conditions. Contact your Tnemec representative for more information.

CURING TIME

Temperature [†]	To Touch	To Handle	To Recoat [‡]	To Topcoat
95°F (35°C)	45 minutes	8 hours	9 hours	12 hours
75°F (24°C)	2 hours	16 hours	18 hours	24 hours
45°F (7°C)	4 hours	24 hours	28 hours	36 hours

[†]Based on 50% humidity. [‡]Recoat times listed are with itself. **Note:** Curing time varies with surface temperature, air movement, humidity, and film thickness. Application in high-humidity conditions may increase curing time.

VOLATILE ORGANIC COMPOUNDS

0.26 lb/gal (31 g/L)

HAPS

0.00 lb/gal solids

THEORETICAL COVERAGE

1,155 mil sq ft/gal (28.3 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS

One

PACKAGING

Five-gallon pail yielding 4 gallons (15.1 L).

DRY FILM WEIGHT

0.035 lbs/sq ft at 20 mils DFT

NET WEIGHT PER GALLON

6.63 lbs ± 0.25 lbs (3.0 kg ± 0.11 kg) (mixed)

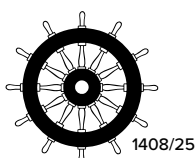
AEROLON® MARINE | SERIES 972

STORAGE TEMPERATURE	Minimum 40°F (4°C) Maximum 110°F (43°C) PROTECT FROM FREEZING.
TEMPERATURE RESISTANCE	Continuous 325°F (163°C)
SHELF LIFE	12 months at recommended storage temperature.
FLASH POINT - SETA	>230°F (110°C)
HEALTH & SAFETY	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

APPLICATION

COVERAGE RATES	<table border="1"> <thead> <tr> <th></th> <th>Dry Mils (Microns)</th> <th>Wet Mils (Microns)</th> <th>Sq Ft/Gal (m²/Gal)</th> </tr> </thead> <tbody> <tr> <td>Minimum</td> <td>20.00 (510)</td> <td>28.0 (705)</td> <td>58 (5.4)</td> </tr> <tr> <td>Maximum</td> <td>50.0 (1270)</td> <td>69.5 (1765)</td> <td>23 (2.1)</td> </tr> </tbody> </table> <p>Practical coverage rates. Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below the minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.</p>		Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m ² /Gal)	Minimum	20.00 (510)	28.0 (705)	58 (5.4)	Maximum	50.0 (1270)	69.5 (1765)	23 (2.1)
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MIXING	Mix thoroughly under low agitation. A box blade (H-paddle) is recommended.												
THINNING	Thin up to 5% by volume with clean tap water.												
APPLICATION EQUIPMENT	The Graco RTX 5000 is the preferred application equipment. Please refer to the Series 972 Application Guide for specific information and other equipment options.												
SURFACE TEMPERATURE	Minimum 45°F (7°C) Maximum 200°F (93°C) The surface should be dry and at least 5°F (3°C) above the dew point. Coating will not cure below minimum surface temperature.												
CLEANUP	Flush and clean all equipment immediately after use with clean water.												

CERTIFICATIONS



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