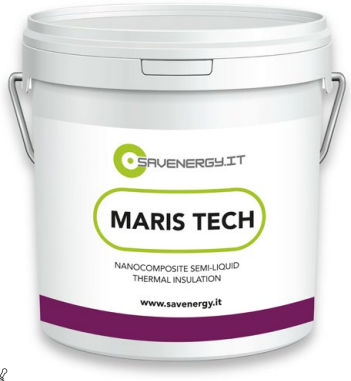
MARIS TECH

Nanocomposite semi-liquid thermal insulation



MED - SOLAS - IMO - MSC certified for marine application (N° 0497/1809)

FEATURES

Packaging: 16 lt

Coverage: 1 lt /1 sq.m / 0,75 mm approx.

Thickness: 1.0 - 4.0 mm approx.

Thermal conductivity: λ_d = 0,0010 W/mK

Thermal reflectance (SR %) (ASTM C1549): 91.0

Thermal emissivity (IE %) (EN 15976): 90.0

Thermal reflectance index (SRI %) (ASTM E1980): 115.3

Ph: 8,5 (± 0,5)

VOC content: 1 gr/lt

Finish/color: White (can be colored with pastel colors)

Viscosity: 7500 cps

Density: 370 kg/m^3 approx.

Reaction to fire: Euro Class A - MED Certification

Water permeability w: 0.08 kg/mh (E 1062-3)

Pull-off test: > 2 on substrate 0.55 ± 0.10 /mm lyer over layer (ASTM 4541)

Drying time for each coat: 8 h

Composition	Patented product containing ceramic nanoparticles for thermal insulation.
General information	The waterproof thermal protective coating is water-based, solvent-free, paint-like, thin-layered, and stable, containing microscale hollow ceramic spheres. It significantly reduces thermal load, mainly due to its thermo-reflective capabilities. It has a waterproofing effect, forms a uniform coating, provides excellent adhesion to various surfaces, and thus reduces the likelihood of mold and algae formation. It is an anti-condensation product. It is an environmentally friendly product and does not generate hazardous waste. On most substrates, no primer is required.
Use	Insulating protective coating for the interiors of boats, yachts, ferries, and ships. The product ensures effective and long-lasting thermal insulation without the need for maintenance. It also improves acoustic insulation. Specifically designed for the marine sector, it can also be used in other industrial applications. Easy to apply even on irregular surfaces.
Application	The ideal application method (in multiple coats, from one to four) is by using a piston-type airless sprayer such as the Graco Mark VII HD, following the instructions provided in the Installation Manual. The product must first be mixed with a low-speed electric mixer for at least 3 minutes. Recommended pressure: 180–200 bar, with LP 517 or LP 617 nozzles. Avoid application at temperatures below +5°C and relative humidity above 80%; protect from rain for the first 48 hours. Maximum substrate temperature limit: 180°C. The product is applied directly to the inner parts of the hulls and to interior walls, prior to the application of subsequent planned products/paints.
Special remarks	Adhesion test: no loss of adhesion, no visible signs of separation, swelling or peeling. Complete polymerization occurs within 30 days.
Shelf life of the packaged product	12 months from the production date.

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