Product Data Sheet

ECOSPEED®

Description	ECOSPEED is a two-component glass flake reinforced vinyl ester coating system with extremely good adhesion, superior corrosion protection and high chemical resistance. Suitable for steel, aluminium, glass reinforced plastic and concrete substrates.
Typical use	ECOSPEED is typically used for ship hulls, decks, ballast tanks, storage tanks, EGCS or scrubber related items and general structural steel.
Approvals and certificates	Recognized by Lloyd's Register as abrasion resistant ice coating for ships intending to navigate in ice conditions. Meets the requirements of NORSOK M-501, System 7. ECOSPEED has been given class B1 after simulated ballast tank testing in a classification system from B1 to B6, in which B1 is the superior grade. NATO Stock Number ECOSPEED Light Grey: 6810-13-119-1845

Product information

Colors	All RAL colors available to order.
Toxicity	Nil (biocide free)
Volume solids	84 ± 2 %
Flash point	31 °C (88 °F)
Density	1.32 kg/l
VOC	240 g/l
Shelf life	12 months at 25 °C (77 °F) from time of production. Depending on storage conditions, mechanical stirring may be necessary before usage. If shelf life is exceeded, please contact SUBSEA INDUSTRIES for further advice.
Storage temperature	Maximum 25 °C (77 °F), store in dry and shaded conditions
Temperature limits	Minimum -60 °C (-76 °F) Maximum 170 °C (338 °F), in dry or gas conditions

Surface preparation	SA 2½ (ISO 8501-1) or SSPC-SP 10 (SSPC) near-white metal abrasive blast cleaning, with a minimum surface profile of 75 microns (3 mils). To secure lasting adhesion all surfaces shall be clean, dry, and free from any contamination.

Application details

Application method	Airless spray Brush (only for touch up or stripe coat)
Spray equipment	Pump ratio 63:1 or higher
Spray tip	631 reversible spray tip

Thinner	Styrene (2.5 % mixing ratio)
Catalyst	Butanox LPT-IN (1-2 % mixing ratio, see application guide)
Cleaning	Acetone
Total DFT	1000 microns (40 mils) Dry Film Thickness (2 layers)
DFT/coat	500 microns (20 mils) Dry Film Thickness
WFT/coat	625 microns (25 mils) Wet Film Thickness
Pot life	30 minutes at 20 °C (68 °F)
Overcoat time	Minimum: 3 hours at 20 °C (68 °F) Maximum: indefinite (if clean)
Conditions	Relative humidity should be below 85 %. Surface temperature during application and curing should be at least 3 °C (6 °F) above dew point. Surface temperature during application and curing should be above 0 °C (32 °F) and below 60 °C (140 °F).

Spreading rate

Theoretical coverage	1.23 l/m^2 per 1000 microns DFT
Practical coverage	1.6 l/m^2 required per 1000 microns DFT (estimation, may vary depending on surface area, shape, and type of application).

Health and safety	Handle with care. Before and during use, observe all safety labels on packaging and cans, consult SUBSEA INDUSTRIES Material Safety Data Sheets and follow local safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow.