

# Product Data Sheet

## ECOLOCK®

<b>Description</b>	ECOLOCK is a two-component glass flake reinforced vinyl ester coating system with extremely good adhesion and superior corrosion protection. Suitable for steel, aluminium, and glass reinforced plastic.
<b>Typical use</b>	ECOLOCK is typically used for hulls of stationary offshore units, other long-lasting corrosion protection and general structural steel.
<b>Product information</b>	
<i>Colors</i>	All RAL colors available to order.
<i>Toxicity</i>	Nil (biocide free)
<i>Volume solids</i>	84 ± 2 %
<i>Flash point</i>	31 °C (88 °F)
<i>Density</i>	1.32 kg/l
<i>VOC</i>	240 g/l
<i>Shelf life</i>	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.
<i>Storage temperature</i>	Maximum 25 °C (77 °F), store in dry and shaded conditions
<i>Temperature limits</i>	Minimum -60 °C (-76 °F) Maximum 170 °C (338 °F), in dry or gas conditions
<b>Surface preparation</b>	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.
<b>Application details</b>	
<i>Application method</i>	Airless spray Brush (only for touch up or stripe coat)
<i>Spray equipment</i>	Pump ratio 63:1 or higher
<i>Spray tip</i>	631 reversible spray tip
<i>Thinner</i>	Styrene (2.5 % mixing ratio)
<i>Catalyst</i>	Butanox LPT-IN (1-2 % mixing ratio, see application guide)
<i>Cleaning</i>	Acetone
<i>Total DFT</i>	1000-1500 microns (40-60 mils) Dry Film Thickness (2-3 layers)
<i>DFT/coat</i>	500 microns (20 mils) Dry Film Thickness
<i>WFT/coat</i>	625 microns (25 mils) Wet Film Thickness
<i>Pot life</i>	30 minutes at 20 °C (68 °F)
<i>Overcoat time</i>	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 (38 °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<sup>2</sup> per 1000 microns DFT

*Practical coverage* 1.6 l/m<sup>2</sup> 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.

---

LIMITATION OF LIABILITY

The information in the data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Subsea Industries products, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

Subsea Industries has no control over either the quality or condition of the substrate, or many factors affecting the use and application of the product. Subsea Industries does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification because of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues, and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

The English text of this document shall prevail over any translation thereof.

---