## PRODUCTS

**Euro-basic ES301**, anticorrosive primer or intermediate. Distinct curing versions depending on local temperature condictions.

**Euro-basic ES301S**, edge retentive intermediate/finish.

Please report to Euronavy Product Data Sheets for full information regarding properties and aplications issues.

**Euro-basic ES301** can be applied over different kinds of surface preparation:

- ✔ **UHP Hydroblasting Wj2-M** (SSPC SP12 - VIS4(I) / NACE Nº 5 - Nº 7)
- ✔ **Abrasive blasting SA2** (ISO 8501-1: 1988)
- ✔ **Mechanical Treated St3** (ISO 8501-1:1988)

## Applications

**Marine & Offshore, Oil industry, Structural steel protection in heavy-duty applications (bridges, energy, pulp & paper and chemical industries, etc).**

## EURONAVY ADVANTAGES

### How to profit using ES301 over hydroblasted surfaces

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|---|---|
| **PERFORMANCE** | • Coating immediately after hydroblasting or other water based preparation, without drying, assures the lowest possible salt level.<br>• Edge retentive last coat is an additional factor of success.<br>• Extraordinary adhesion<br>• Formation of a protective composite at the interface<br>• Surface tolerant. No dew point restrictions. |
| **ENVIRONMENT** | • No solvent release<br>• Hydroblasting is not only possible but also preferable. |
| **COST** | • Lower overall cost of Hydroblasting + ES301, considering time and abrasive disposal reduced costs<br>• No abrasive removal costs<br>• No need for dehumidifier equipment.<br>• Saving time: no need to stop application, even under very humid conditions.<br>• Less need for stripe coating. |
| **SAFETY** | • Lower inflammability risk.<br>• Lower impact on people health: no abrasive dust, no solvents |

## PHYSICAL TESTING

| | |
|---|---|
| **Adhesion (Pull Off) ( ASTM D4541 )** | Wet surface: 120 Kg/cm2 ( 1706 psi. )<br>Dry surface: 170 Kg/cm2 ( 2417 psi. ) |
| **Abrasion Strength (ASTM D4060)** | 6 x $10^{-3}$ g/cycle (1000 cycles / 1 Kg) |
| **Coefficient of Thermal Expansion** | 15 x $10^{-6}$ /cm2 |
| **Impact Resistance** | 853 KgF/cm2 ( 12,132 psi. ) |
| **Barcol Resistance(ASTM D2583)** | 28 |
| **Elasticity Modulus (ISO/R 527)** | 100,000 KgF/cm2 |
| **Salt spray resistance (ASTM B117)** | 2000 hr - No defects |
| **Humidity ( ASTM D2247 )** | No defects |
| **Maximum elongation (ISO/R 527)** | 3% |
| **Compressive Strength (ISO 844)** | 1.050 KgF/cm2 (~ 15,000 psi. ) |
| **Flexural Strength (ISO 178)** | 650 KgF/cm2 ( 9245 psi. ) |
| **Condensation Resistance (ASTM D4585):** | 2000 hours - No defects |
| **Exterior Exposure (ASTM D1014)** | 2 years- "Chalking" (ASTM D659): rating 4 |
| **Immersion in water (ASTM D870)** | 4000 hr.- No defects |
| **Immersion in salt water (ASTM D870)** | 4000 hr. - No defects |
| **QUV (Using A340 & B313 bulbs)** | 2000 hr. "Chalking" (ASTM D659) rating 4 |
| **Adhesion (Tape test, ASTM D3359)** | Rating - 5B |
| **Deformation/Impact test (ASTM D2794)** | 30 Kg.cm |
| **Flexibility (ASTM D522 - Mandrel belt)** | No defects |
| **Absortion (ASTM D570)** | 0,30 % |
| **Prohesion (ASTM G85)** | 2000 hr - No defects |

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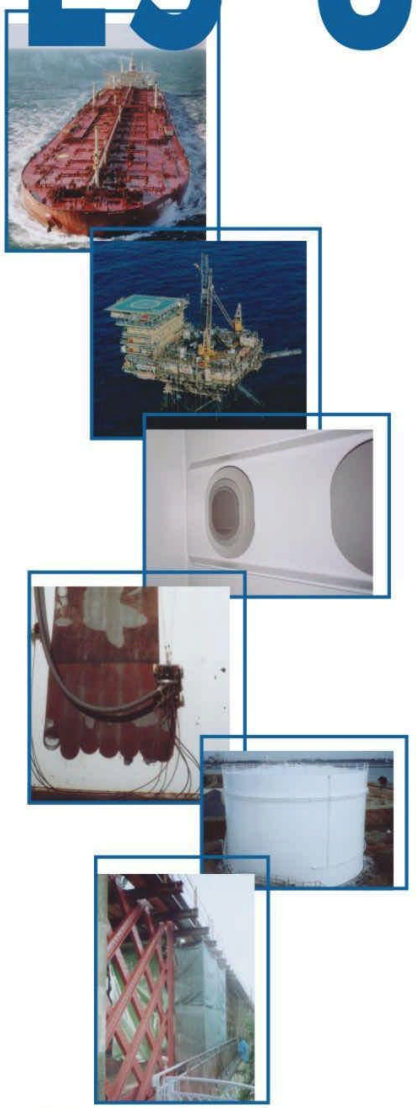
## Ecologically Engineered Anticorrosive System

# ES 301

EURONAVY



The **EURO-basic ES301** range of anticorrosive epoxy coatings was developed as a basis for an efficient, economic, safe and environmental friendly anticorrosive protection system:

- ✔ **Solvent-free**
- ✔ **No dew-point restrictions**
- ✔ **High Edge retention**
- ✔ Tolerant to damp surfaces
- ✔ Tolerant to adherent iron oxides
- ✔ Extraordinary adhesion over damp or dry steel
- ✔ Reacts with steel, humidity and oxides
- ✔ Surface roughness is not a critical issue
- ✔ Extended pot-life (up to 3 hours at 23°C)

The same coating system is combining together three main factors: hydroblasting compatibility, solvent-free coatings and good edge retention. All this with extended pot-life, no dew point restrictions and an extraordinary adhesion to the steel surface.

| NEW NEEDS | NEW TRENDS |
|---|---|
| ENVIRONMENT | • WATER BASED SURFACE PREPARATION (e.g. Hydroblasting) |
| PERFORMANCE | • SOLVENT FREE COATINGS |
| SAFETY | • EDGE RETENTIVE COATINGS |
| COST | |

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