



Oxibond DHS ESP 870 uses specially selected raw materials, showing excellent physical and mechanical resistance, also cathodic protection and edge retentive. A high build application of this product is possible, and it provides a surface tolerant characteristics. it's a low VOC.

**TECHNICAL CHARACTERISTICS**

**TYPE**

Dual function coating epoxy resin. Two pack system.

**USAGE**

As coating for large structures, offshore, tanks and piping (exterior and interior ), several industrial equipment, mainly at pulp and paper industries. Also it is indicated for decks, broadside, boottop, superstructures, coamings, hatchway lids, accessories in general and equipment exposed to splash zone.

**TECHNICAL INFORMATION**

<b>COLOR</b>	Black N-1,0	Other colors, please consult.	
<b>FINISH</b>	Glossy		
<b>VOLUME SOLIDS</b>	85% ± 3	According to ISO 3233	
<b>WEIGHT PER LITER</b>	1,500 ± 0,05 g/ml	According to ASTM D 1475	
<b>VOC</b>	143 g/l	This value may vary to each color	
<b>FLASH POINT</b>	35°C		
<b>MIXING RATIO</b>		Weight	Volume
	<b>Comp. A</b>	100,0	4,0
	<b>Comp. B</b>	17,0	1,0
<b>POT LIFE (25°C)</b>	90 min		
<b>INDUCTION TIME</b>	15 min		
<b>THEORETICAL SPREADING RATE</b>	3,40 m <sup>2</sup> /l para 250 µm 0,85 m <sup>2</sup> /l para 1000 µm		
<b>WET THICKNESS</b>	294 a 1176 µm		
<b>DRY THICKNESS</b>	250 to 1000 µm		
<b>DRYING TIME, for 250 µm</b>		25°C	

		Minimum	Maximum
	<b>Touch</b>		2h
	<b>Handle</b>		6h
	<b>Recoat</b>	6h	72h

<b>ENVIRONMENTAL CONDITIONS</b>	<b>Temperature</b>	Should be between 0 to 40°C.
	<b>Relative Humidity</b>	Between 30 to 85%
	<b>Dew Point</b>	Surface temperature is at least 3°C above dew point
	<b>Thinner</b>	420.0000

<b>APPLICATION</b>	<b>Brush</b>	It is not necessary dilution. This method must be used only for retouch and backing of welding cords and corners.
	<b>Roller</b>	Dilute up to 10% (vol.) with recommended thinner. Must be used solvent resistant roller (sheep wool). The wool must be cutted (small size) to avoid blistering during the application. Need more coats to achieve the desired thickness and uniformity in coverage.
	<b>Conventional Spray Gun</b>	Dilute up to 20% (vol.) with recommended thinner. Conventional DeVilbiss JGA 503 FX 704 spray gun or similar. Spray pressure between 3,0 to 4,0 kgf/cm <sup>2</sup> (42 to 56 psi). Tank pressure between 1,5 to 2,5 kgf/cm <sup>2</sup> (21 to 35 psi).
	<b>AirLess Spray Gun</b>	Dilute up to 10% (vol.) with recommended thinner. Use nozzles between 23 to 29 and pump pressure between 140 to 175 kgf/cm <sup>2</sup> (2000 to 2500 psi).



---

<b>SURFACE PREPARATION</b>	<b>Direct over carbon steel</b>	The surface must be dry, free of contaminants such as salt deposits, oil, grease, fat, dust and other kind of contaminants. Recommended ISO 8501-1 St 3 treatment (minimum) for areas without immersion (atmospheric zone) and Sa 2 ( minimum) for immersed areas . Accepts St 3 treatment for small areas and repairs painting. Applicable on surfaces treated with Ultrahigh Pressure Water Jetting, being tolerant to flash rusting and residual moisture in the substrate with no stains or puddling of water.
	<b>Recommended Primers</b>	Not applicable
	<b>Coated Surfaces</b>	The surface must be clean and free of contaminants as oils, fat, grease and dust. Must not present peeling's areas. Proceed light sanding (220) to break the gloss.
	<b>Recommended TopCoat</b>	Not applicable

---

<b>SHELF LIFE</b>	12 months
<b>UN NUMBER</b>	<b>1263</b>
<b>HAZARD NUMBER</b>	<b>33</b>

---

**IMPORTANT RECOMMENDATIONS**

---

1. The practical spreading rate of the product varies according to the applied thickness, application method and techniques, type and rugosity of the surface and ambient conditions.
  2. The weight/l, viscosity and drying values were obtained in laboratory at a temperature of 25°C. At an altered temperature, the results might be different from the specified ones.
  3. If recoat interval exceeds, sand the surface lightly. For temperatures above the established, the recoat drying time will be reduced.
  4. Low temperatures increase curing time. For temperatures below 10°C, contact our Consultants.
  5. The maximum applied thickness can only be achieved using airless spray gun. More coats might be needed to achieve the required thickness if other application methods are employed.
- 

**SAFETY PRECAUTIONS**

---

1. Improper use and handling of this product can be hazardous to health and cause fire or explosion. Do not use it without first taking all appropriate measures to prevent property damage and injuries.
  2. Storage: keep the product in sheltered, well-ventilated areas. Maximum temperature: 40°C. Must not be directly exposed to the sun.
  3. Flammable: flammable product, which must be kept distant from ignition sources, and do not smoke nearby.
  4. Inhalation: Avoid breathing vapors, keeping proper ventilation during application and drying.
  5. Handling: wear proper protective clothing and masks, goggles, etc. Do not eat or drink nor allow children and animals to be near the application area.
-



---

## HEALTH HAZARDS

---

1. Skin contact: wash affected area thoroughly with neutral soap.
2. Clothing contact: remove clothing and wash it.
3. Leakage: Isolate the area, and do not smoke nearby. If large quantity leaked in confined area, wear protective masks. Do not inhale vapors. Stop leakage with sand, sawdust or soil, and transfer liquid and solid to separated recipients for disposal.
4. Fire: protect non-affected recipients with water spray. Extinguish fire using carbon dioxide, foam or dry chemical.
5. Eyes contact: flush eyes with large amounts of clean water for at least 10 minutes, and get medical attention immediately.

IMPORTANT: For further information consult the product MSDS (Material Safety Data Sheet).

---