



Revran DEF 870 uses specially selected raw materials, epoxy phenolic resin cured with polyamine which provide excellent chemical and mechanical resistance. Low organic solvent content (low VOC) and surface tolerant, can be formulated with pigments free of heavy metals.

**TECHNICAL CHARACTERISTICS**

**TYPE**

Dual function coating, epoxy phenolic resin. Two pack system.

**USAGE**

Recommended for use in large structures, offshore, coating for external and internal tanks, pipes and various industrial equipment. Also suitable for: deck, side, boottop, superstructure, coamings, hatchway lids and accessories in general.

**TECHNICAL INFORMATIONS**

<b>COLOR</b>	Red	Other colors, please consult.	
<b>FINISH</b>	Glossy		
<b>VOLUME SOLIDS</b>	78% ± 2	According to ISO 3233	
<b>WEIGHT PER LITER</b>	1,500 ± 0,05 g/ml	According to ASTM D 1475	
<b>FLASH POINT</b>	25°C		
<b>VOC</b>	205 g/l		
<b>MIXING RATIO</b>		Weight	Volume
	<b>Comp. A</b>	100,0	8,0
	<b>Comp. B</b>	7,5	1,0
<b>POT LIFE (25°C)</b>	3 h		
<b>INDUCTION TIME</b>	15 min		
<b>THEORETICAL SPREADING RATE</b>	6,5 m <sup>2</sup> /l - 120 µm		
<b>WET THICKNESS</b>	154 µm		
<b>DRY THICKNESS</b>	120 µm		
<b>DRYING TIME, for 120 µm</b>		25°C	

		Minimum	Maximum
	<b>Touch</b>		2 h
	<b>Handle</b>		6 h
	<b>Recoat</b>	16 h	24 h

<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 to dilute. 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. Need more coats to achieve the desired thickness. Must be used solvent resistant roller (sheep wool). The wool must be cutted (small size) to avoid blistering during the application.

	<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 21 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. Standard treatment recommended : Sa 2 ½ (minimum), according to ISO 8501-1 for immersed areas. Accepts St 3 treatment (minimum) to minor repairs and maintenance. 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, not immersed areas.
	<b>Recommended Primers</b>	Revran PFZ 873 and Revran PEF 870. Other primers, contact our Technical Department.
	<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, cleaning, with 220 sandpaper to shine break.
	<b>Recommended TopCoat</b>	Not Applicable

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

**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 and viscosity 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 the recoating interval is exceeded, proceed light sanding. For temperatures above the established recoating will be reduced.
4. Low temperatures increase the curing time. For temperatures below 10 ° C, consult our Technical Department.
5. If necessary faster drying at low temperatures can be used Component B Special 870.2752. Contact our Technical Department before using this product.
6. The relative humidity above 90% during the curing process can affect the gloss.

**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.



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## HEALTH HAZARDS

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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).

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