

**TDS 1268**

REVIEW: 02/2016

Standards:

PETROBRAS N-2231 D

USIMINAS NCU – 0200

**Rezinc ART 596**

Component A: 596.0919

Component B: 890.1150



Rezinc ART 596 uses specially selected raw materials, showing exceptional anticorrosive characteristics through cathodic protection. The coating is curable with moisture in the air and presents excellent resistance to solvents and high temperature.

**TECHNICAL CHARACTERISTICS****TYPE**

Ethyl silicate primer / topcoat, pigmented with zinc powder and aluminum, two pack system.

**USAGE**

Recommended for equipment and piping that operate at temperatures of up to 600°C.

**TECHNICAL INFORMATION**

<b>COLOR</b>	Aluminum Grey		
<b>FINISH</b>	Matt		
<b>VOLUME SOLIDS</b>	55% ± 2	According to ISO 3233	
<b>WEIGHT PER LITER</b>	1,900 ± 0,05 g/ml	According to ASTM D 1475	
<b>FLASH POINT</b>	32°C		
<b>MIXING RATIO</b>		Weight	Volume
	<b>Comp. A</b>	100,0	2,1
	<b>Comp. B</b>	19,0	1,0
<b>POT LIFE (25°C)</b>	5 h		
<b>INDUCTION TIME</b>	15 to 30 min		
<b>THEORETICAL SPREADING RATE</b>	7,3 m <sup>2</sup> /l - 75 µm		
	5,5 m <sup>2</sup> /l - 100 µm		
<b>WET THICKNESS</b>	136 µm to 182 µm		
<b>DRY THICKNESS</b>	75 µm to 100 µm		
<b>DRYING TIME, for 75 µm</b>	25°C		
		Minimum	Maximum
	<b>Touch</b>		20 min
	<b>Handle</b>		2 h
	<b>Recoat</b>	16 h	72 h
<b>ENVIRONMENTAL CONDITIONS</b>	<b>Temperature</b>	Should be between 5 to 52°C	
	<b>Relative Humidity</b>	Between 60 to 85%	
	<b>Dew Point</b>	Surface temperature is at least 3°C above dew point	
	<b>Thinner</b>	494.0000	
<b>APPLICATION</b>	<b>Conventional Spray Gun</b>	Dilute up to 10% (vol.) with recommended thinner. Conventional DeVilbiss JGA 502 EX 67 spray gun or similar. Spray pressure between 2,5 to 3,0 kgf/cm <sup>2</sup> (35 to 43 psi). Tank pressure between 0,5 to 1,5 kgf/cm <sup>2</sup> (7 to 21 psi). Use pressure tank with stirrer.	
	<b>AirLess Spray Gun</b>	Dilute up to 10% (vol.) with recommended thinner. Use nozzles between 21 to 27 and pump pressure between 140 to 75 kgf/cm <sup>2</sup> (2000 to 2500 psi).	
<b>SURFACE PREPARATION</b>	<b>Direct over carbon steel</b>	Blast cleaning ISO 8501-1 Sa 2 ½ recommended. The surface must be dry, free of contaminants such as salt deposits, oil, grease, fat, dust and other kind of contaminants.	
	<b>Recommended Primers</b>	Not applicable	
	<b>Recommended TopCoat</b>	Not applicable	

**TDS 1268**

REVIEW: 02/2016

Standards:

PETROBRAS N-2231 D

USIMINAS NCU – 0200

**Rezinc ART 596**

Component A: 596.0919

Component B: 890.1150



---

<b>SHELF LIFE</b>	6 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. Pot life is shortened by higher temperature and by the increase of catalyzed volume.
  4. The product, when applied with relative humidity below 60% in hot surfaces, have a retarded healing and curing may be accelerated by spraying water at 5 hours after the application.
  5. Retouching: use epoxy primer rich in powder zinc only for cases operating temperatures up to 120°C.
  6. Zinc is an abrasive material. If you want a larger conservation pistol and final quality of the application, use DeVilbiss JGA 5023 EE 67 (tungsten carbide) or similar.
  7. You can use the thinner 870.1477, maintaining the same conditions of performance and quality that the solvent 494.0000 . Differentiated product only in logistics function.
- 

**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).

---