

**PRODUCT DESCRIPTION** Surface, rust and moisture tolerant 100% solids water displaceable primer

**INTENDED USES** This primer is used for a wide range of splash zone and underwater applications including the protection of risers, pipes and structures. This product is designed to be applied and cured underwater

<b>PRODUCT INFORMATION</b>	<b>SKU/Finish/Sheen</b>	199- Standard Medium Grey ,Gloss - 105GU
	<b>Part B (Curing Agent) SKU</b>	222
	<b>Volume Solids</b>	100% (Wet mils = Dry mils) (ISO 3233:1998)
	<b>Typical Density</b>	1.8 +/- 0.1
	<b>Mix Ratio</b>	3.38 Part A to 1 Part B by Weight
	<b>Film Thickness</b>	10 Wet Mils (250 microns wet).
	<b>Theoretical Coverage</b>	3.92 m <sup>2</sup> /litre (160 Ft <sup>2</sup> /Gall) at 10 Mils
	<b>Method of Application</b>	Brush, Roller, Underwater applicator
	<b>Flash Point (Typical)</b>	Part A >100°C; Part B >100°C; Mixed >100°C

<b>Drying Information</b>	10°C	15°C	25°C	35°C
Touch Dry [ISO 9117/3:2010]	24 hrs	12 hrs	8 hrs	5 hrs
Hard Dry [ISO 9117-1:2009]	36 hrs	24 hrs	18 hrs	8 hrs
Pot Life	no data	90 mins	60 mins	45 mins

<b>Overcoat/Recoat</b>	<b>Substrate Temperature</b>							
	10°C		15°C		25°C		35°C	
	Min	Max	Min	Max	Min	Max	Min	Max
	30 hrs	unlimited	18 hrs	unlimited	12 hrs	unlimited	4 hrs	unlimited

### SURFACE PREPARATIONS

This primer has been specifically designed to be surface tolerant in under water applications. Cleaning methods that produce a St 2 or Wj-4 by means of grit blast, wet blast or HP water-jetting is acceptable. Hand and power tool cleaning is commonly used.

<b>PERFORMANCE</b>	<b>Adhesion Pull Tests</b>	ASTM D4541	2 mil blasted cold rolled
	Prime 200-MF	Dry	2,055 psi
	Prime 200MF + Flex 200-GF	Dry	1,608 psi
	Prime 200MF + Flex 200-GF	Seawater Immersion	1,252 psi
	Resistant to water with a PH between 4 - 6		

### APPLICATION

<b>MIXING</b>	<p>Material is supplied in a Uni-Pak container. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.</p> <p>(1) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.</p>
<b>THINNER</b>	Not recommended.
<b>AIRLESS SPRAY</b>	<p>Tip Range 0.53-0.58 mm (21-23 thou)</p> <p>Total output fluid pressure at spray tip not less than 211 kg/cm<sup>2</sup> (3000 p.s.i.)</p> <p>Mixed material temperatures should be between 30-35°C (86 - 95F) for optimum spraying.</p>
<b>CONVENTIONAL SPRAY</b>	Application by conventional spray is not recommended.
<b>BRUSH AND ROLLER</b>	Application by brush or roller is recommended. Multiple coats may be required to achieve specified film thickness.
<b>CLEANER</b>	Methyl Ethyl Ketone (CAS # 78-93-3)
<b>WORK STOP / CLEANUP</b>	<p>Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with Cleaner. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed material.</p> <p>Clean all equipment immediately after use with cleaner. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays. Do not exceed pot life limitations. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.</p>
<b>WELDING</b>	In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.
<b>PACKAGING SIZE</b>	18 kg UniPak Pail
<b>UN SHIPPING</b>	Non-hazardous , non-regulated (ECCN EAR99 , Tariff # 3208900000)
<b>SHELF LIFE</b>	36 Months
<b>LIMITATIONS</b>	<p>At ambient temperatures below 25°C paint lines must be lagged. In-line heaters should not be used unless absolutely necessary. For maximum performance the curing temperature should be kept below 35°C. Particular care should be taken to avoid exceeding this in localized areas when artificial heating is introduced. The climatic conditions within the tank must be controlled to maintain a maximum relative humidity of 50% at temperatures between 10-15°C, and a maximum relative humidity of 60% at temperatures of 16°C and above. The drying times and overcoating intervals may alter due to various on-site factors such as tank configuration and ventilation rates.</p>
<b>IMPORTANT NOTE</b>	<p><i>The information contained in this data sheet is to the best of our knowledge true and accurate; but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose.</i></p> <p><a href="http://www.royalcoatings.net">www.royalcoatings.net</a></p>