**CERAMETAL 3**

Technical Data: DIFFCOR/CR/06-18

**Product Description**

Cerametal 3 is a low friction corrosion resistant two component solvent-free lining compound specially designed to combat erosion/corrosion found in fluid flow environments. It is easily applied by brush or roller, keeping application cost to a minimum. It is a ‘resin rich’ system that ‘wets out’ surfaces completely thus ensuring maximum adhesion. It is the most economical chemical and corrosion resistant coating system for the most aggressive industrial environments. It exhibits excellent adhesion to concrete as well as metal surface.

Application:
1) Pumps casing and impellers for efficiency improvement and power saving
2) Heat exchanger, valves, struts/Rudders, tube sheets, water boxes, tanks

Cerametal 3 is ideal for compound to combat erosion/corrosion in heat exchangers, tube sheets, water boxes, pumps, pipes, valves, impellers, concrete floors etc. temperature range 20 °C to 150 °C.

**TYPICAL CURING PERFORMANCE**

**Curing Properties**

<table>
<thead>
<tr>
<th>Gel Time @ ambient temp</th>
<th>minutes 20 to 30</th>
</tr>
</thead>
</table>

**Curing time vs. Temperature**

<table>
<thead>
<tr>
<th>Ambient temp</th>
<th>20°C</th>
<th>25°C</th>
<th>30°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot life</td>
<td>60min</td>
<td>45min</td>
<td>30min</td>
</tr>
<tr>
<td>Full cure</td>
<td>15hrs</td>
<td>12hrs</td>
<td>10 hrs.</td>
</tr>
</tbody>
</table>

**Typical cured properties of material**

- Compressive strength (ASTM D642): 5000-5500 Psi
- Flexural strength (ASTM 790): 8500-9000 Psi
- Hardness shore D (ASTM D2240): 85-88
- Tensile strength (ASTM D882): 5500-6000 Psi
- Elongation At break % (ASTM D882): 2.6
- Shear strength (ASTM D1002): 2500-3000 Psi
- On grit blasted MS surface Abrasion resistance H-18 wheels 1000 cycles (ASTM D 4060): 188mg

**Surface preparation:** Surface to be coated should be abrasive blast cleaned. Base component and Activator component must be mixed together immediately prior to use. Stir the contents of base component. Continue stirring and gradually add total contents of the activator container. Stir the combined mix until completely homogeneous. The mixed material must be used within 1 hour of mixing at 20°C (68°F).

**Application Procedure:**

Cerametal 3 can be applied by brush or roller, with brush application being preferred for the coat of a two coat application. Good quality brushes or short to medium pile rollers should be used. Best application results are obtained with a minimum substrate temperature, 15°C to 20°C being the ideal.

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

**Base:**

- Viscosity: Brushable
- Weight per liter: 1.6 kg/liter

**Hardener:**

- Viscosity: Brushable
- Weight per liter: 1.1 kg/liter

**Mixed:**

- Viscosity: Brushable
- Coverage: 0.65 m² @ 1mm thick/1kg