DIFFBOND
Technical Data: DIFFCOR/CR/06-18

**Product Description:**
DIFF-BOND is high-strength epoxy bonding compound for metallic and non-metallic and ceramic material. It’s highly thixotropic material with no sagging and running and can be applied on vertical and horizontal surface. Originally developed for ceramic tile bonding. DIFF-BOND compound is high solid 100% reactive and does not contain any solvents or diluents. This highly dimensionally stable system has very low shrinkage after cure.

**Application:**
Ceramic tile adhesive which having very high adhesive strength.

- Easy application: Adhesive spreads readily.
- Excellent bond strength to Metals, ceramics, Concrete surfaces.
- High bonding strength to a wide variety of substrates.
- High shear strength compound.
- Resistant to a variety of chemicals.
- Tough and durable.
- Temperature ranges 20-150°C.

**Mixed:**
- Viscosity: Paste
- Coverage: 0.2 m² @ 2mm thick/1kg

**TYPICAL CURING PERFORMANCE**

**Curing Properties**
- Gel Time @ Ambient temp, minutes 35 to 30

**Curing time vs. Temperature**

<table>
<thead>
<tr>
<th>Ambient temp</th>
<th>20°C</th>
<th>25°C</th>
<th>30°C</th>
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<tbody>
<tr>
<td>Pot life</td>
<td>60min</td>
<td>45min</td>
<td>30min</td>
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<tr>
<td>Full cure</td>
<td>14-15hrs</td>
<td>11-12hrs</td>
<td>8-10 hrs.</td>
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**Typical cured properties of material**
- Compressive strength (ASTM D642) 1000-1200Psi
- Flexural strength (ASTM 790) 4500-5000 Psi
- Hardness shore D (ASTM D2240) 80-85
- Tensile strength (ASTM D882) 200-2500 Psi
- Shear strength (ASTM D1002) 8000 Psi

**On grit blasted MS surface**

**PROCEDURE:**
Clean surface to remove oily, rust and any foreign particles. Abrasive blasting with compressed air to achieve surface Preparation of S A 21/2 or Metal surfaces should be grit blasted to a SSPC-SP5 or NACE #1. For best recommendation consult technical depart for surface preparation method applicable to the surface.

**Mixing**
Mix “base and activator” in specified ration which is supplied in contrasting colors, on clean flat surface. Mix with spatula until a uniform blend free of streaks is obtained.