**ENECLAD SuperBond™**


**ENECLAD SuperBond™** is a revolutionary structural adhesive that provides unrivaled performance when bonding a new concrete overlay to an existing, cured concrete surface or when bonding synthetic/plastic mortars to virtually any rigid surface. When used to bond new concrete to old, the strength of the resultant bond is many times greater than the cohesive strength of monolithic concrete!

**SuperBond™** is a 100% solids, two-component, high performance polymer composite exhibiting extraordinary adhesion to smooth concrete, tile, stone, brick, block, terrazzo, marble, metal, wood and even glass! **SuperBond™** is great for improving the adhesion of conventional caulking materials used in expansion and control joints.

**SuperBond™** can even be used as a bonding agent for permanent immersion applications such as in swimming pools or on ships’ hulls. It cures chemically, transforming the bond-line into a highly durable, waterproof film.

**SuperBond™** is ideal for immersion applications.

**SuperBond™** is an excellent bonding agent for almost any flooring material.

**SuperBond™** is a surface tolerant primer with an extended overcoating window.

**Bonds to Problem Materials Like Never Before**
- Galvanized Surfaces
- Glazed Ceramic Tile
- Glass
- Stainless & Aluminum
...and more

**Surface Coating**

**Glazed Ceramic Tile**

**Caulking Material**

**Concrete**

**Thin Set Mortar**

**SuperBond™**
Using ENECLAD® SuperBond™

Surface Preparation - ENECLAD® SuperBond™ should only be applied to clean surfaces.
1. Remove all loose material and surface contamination.
2. Clean the substrate with a suitable solvent that leaves no residue on the surface after evaporation such as MEK, acetone, denatured alcohol or isopropyl alcohol.
3. If necessary, apply moderate heat and/or allow ingrained contaminants to leach out before the final solvent cleaning.

Note: Although surface roughening is not required for normal applications, roughening of the surface will increase the adhesion of ENECLAD® SuperBond™, which may be desirable for certain applications.

Mixing - For your convenience, the ENECLAD® SuperBond™ Base and Activator have been supplied in precisely measured quantities to simplify mixing of full units.

The individual components of this product should be thoroughly stirred before the two are mixed together. Pour the container of Activator into the Base container. Mix the two components together either manually or mechanically. Blend the material for 1 - 2 minutes. Stop and scrape the container sides and bottom to incorporate any unmixed Base or Activator. Continue mixing for 2-3 additional minutes. Should a small amount of material be required, measure out 5 parts Base and 1 part Activator by volume (5:1, v/v) in a clean mixing container. Keep Base and Activator separated until ready to mix and apply.

Application - Apply by stiff brush or short nap roller. ENECLAD® SuperBond™ should be applied at a minimum thickness of 5 mils, although rougher substrates will require thicker applications. Stipple the SuperBond into any pits and cavities as necessary.

All mixed SuperBond must be applied within its working life. SuperBond may be overcoated when it becomes tacky; however it is imperative that all overcoating be completed within its maximum overcoating time as indicated.

Health & Safety - Every effort is made to ensure that ENECON® products are as simple and safe to use as possible. Normal industry standards and practices for housekeeping, cleanliness and personal protection should be observed. For further information and guidance, please refer to the detailed SAFETY DATA SHEETS (SDS) supplied with the material and also available on request.

Cleaning of Equipment - Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

Technical Support - The ENECON® engineering team is always available to provide technical support and assistance. For guidance on difficult application procedures or for answers to simple questions, call your local ENECON® Fluid Flow Systems Specialist or the ENECON® Engineering Center.

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Technical Data

- Coverage rate per kg. @ 5 mils: 40 - 45 ft² / 4 m²
- Shelf Life: Indefinite
- Mixing ratio: Base to Activator: By volume 5:1, By weight 10:1
- Mixing - Base and Activator have been supplied in precisely measured quantities to simplify mixing of full units.
- Storage - Refrigeration is not required.
- Store in a cool, dry place.
- Safety - Always wear protective clothing and work gloves when handling the product. Provide adequate ventilation. Keep out of reach of children.

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Working Life & Cure Times

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>Working Life</th>
<th>Overcoat Within</th>
<th>Full Cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>50°F 10°C</td>
<td>4 hrs</td>
<td>24 hrs</td>
<td>10 days</td>
</tr>
<tr>
<td>69°F 15°C</td>
<td>90 min</td>
<td>14 hrs</td>
<td>7 days</td>
</tr>
<tr>
<td>77°F 25°C</td>
<td>45 min</td>
<td>8 hrs</td>
<td>4 days</td>
</tr>
<tr>
<td>86°F 30°C</td>
<td>25 min</td>
<td>4 hrs</td>
<td>3 days</td>
</tr>
</tbody>
</table>

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Physical Properties

<table>
<thead>
<tr>
<th>(ASTM D- 4541) Direct Tensile Adhesion to:</th>
<th>Bond Strength (psi)</th>
<th>Failure Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Unblasted Carbon Steel</td>
<td>1500</td>
<td>Stud and panel adhesive failure</td>
</tr>
<tr>
<td>*Unblasted Stainless Steel</td>
<td>1400</td>
<td>Stud and panel adhesive failure</td>
</tr>
<tr>
<td>*Unblasted Galvanized Steel</td>
<td>800</td>
<td>Panel adhesive failure</td>
</tr>
<tr>
<td>*Smooth Plate Glass</td>
<td>1500</td>
<td>Glass cohesive failure</td>
</tr>
<tr>
<td>*Unblasted Aluminum</td>
<td>1400</td>
<td>Stud and panel adhesive failure</td>
</tr>
<tr>
<td>*Cured Epoxy Coating</td>
<td>1000</td>
<td>Stud, coating and panel adhesive failure</td>
</tr>
<tr>
<td>*Glazed Ceramic Tile</td>
<td>700</td>
<td>Tile cohesive failure</td>
</tr>
<tr>
<td>Dry Concrete</td>
<td>400</td>
<td>Concrete cohesive failure</td>
</tr>
<tr>
<td>Damp Concrete</td>
<td>400</td>
<td>Concrete cohesive failure</td>
</tr>
<tr>
<td>*Vinyl Tile</td>
<td>500</td>
<td>Vinyl tile cohesive failure</td>
</tr>
<tr>
<td>*Wood</td>
<td>800</td>
<td>Wood cohesive failure</td>
</tr>
</tbody>
</table>

*Substrates were prepared with only an acetone wipe.

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