High Performance Bonding Agent
Additive designed to improve physical properties of cement mortars.

DESCRIPTION
Crommelin® High Performance Bonding Agent represents a new generation of cement modifiers, developed to improve the physical properties of cement mortars and to produce exceptional performance in cement renders.
Crommelin® High Performance Bonding Agent improves the chemical, corrosion, moisture and salt water resistance of cement renders. It has been specifically formulated for use in highly alkaline cement environments.

FEATURES AND BENEFITS
• Increases tensile, flexural, impact & compressive strengths.
• Waterproof.
• Can be applied in thin coats.
• Promotes adhesion superior to PVA’s & SBR’s
• Increases abrasion resistance.
• Suitable for use in contact with drinking water.
• Resists acids, alkalis, fats & oils.

AREAS OF USE
High Performance Bonding Agent is suitable for use in the following areas:
• Water Tanks.
• Pipe Lining.
• Driveways.
• Factory Floors.
• Re-Building Stairs/Steps.
• Tile Bedding & Grouting.
• Spalled Concrete & Crack Repairs.
• Render/Granolithic Coatings.
SUITABLE SUBSTRATES

High Performance Bonding Agent is suitable for use on the following surfaces:
  • Concrete & Brick.
  • Fibre Cement.
  • Renders

PERFORMANCE DATA - PLAIN OPC MODIFIED WITH HPBA

<table>
<thead>
<tr>
<th>Mix Ratio</th>
<th>15% HPBA to cement weight</th>
<th>Tensile strength (N/mm²)</th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curing Time</td>
<td>28 days</td>
<td>Flexural strength (N/mm²)</td>
<td>4.2</td>
<td>10.9</td>
</tr>
<tr>
<td>Colour</td>
<td>Milky White</td>
<td>Compressive strength (N/mm²)</td>
<td>16.5</td>
<td>39.4</td>
</tr>
<tr>
<td>Thinner</td>
<td>Water</td>
<td>Impact strength (inch/pound)</td>
<td>6.0</td>
<td>16.0</td>
</tr>
<tr>
<td>Shel</td>
<td>12 months</td>
<td>Shear bond (N/mm²)</td>
<td>0.3</td>
<td>4.5</td>
</tr>
</tbody>
</table>

APPLICATION TOOLS

- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm.

SURFACE PREPARATION

Full substrate preparation instructions can be found at www.crommelin.com.au/full-instructions/
  • Substrate should be primed with a 1:1 dilution of High Performance Bonding Agent and water.
  • Apply with Crommelin® Contractor Membrane Brush at the approximate rate of 6-12m²/L.
  • Allow to become tacky then apply topping.
  • For porous surfaces prime with a slurry coat (refer to specifications for mix recommendation).

PRODUCT PREPARATION/SPECIFICATIONS

<table>
<thead>
<tr>
<th>Mix</th>
<th>Sand</th>
<th>Cement</th>
<th>Water</th>
<th>High Performance Bonding Agent</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Agent</td>
<td>N/A</td>
<td>N/A</td>
<td>1L</td>
<td>+ 1L</td>
<td>6-12m²</td>
</tr>
<tr>
<td>Slurry Coating</td>
<td>0.5kg</td>
<td>1kg</td>
<td>Min. required</td>
<td>+ 1L</td>
<td>7.5m²</td>
</tr>
<tr>
<td>Concrete Repair &amp; Tile Beddings</td>
<td>5kg</td>
<td>2.5kg</td>
<td>Min. required</td>
<td>+ 1L</td>
<td>0.4m² @ 10mm 0.6m² @ 6mm</td>
</tr>
<tr>
<td>Screed</td>
<td>5kg</td>
<td>1.6kg</td>
<td>Min. required</td>
<td>+ 1L</td>
<td>0.4m² @ 10mm 0.6m² @ 6mm</td>
</tr>
<tr>
<td>Waterproof Render or Mortar</td>
<td>4kg</td>
<td>1.3kg</td>
<td>Min. required</td>
<td>+ 1L</td>
<td>0.3m² @ 10mm</td>
</tr>
<tr>
<td>Medium Duty Concrete Resurface</td>
<td>4kg</td>
<td>2kg</td>
<td>Min. required</td>
<td>+ 1L</td>
<td>0.5m² @ 6mm 0.3m² @ 10mm</td>
</tr>
<tr>
<td>Heavy Duty Granolithic Topping</td>
<td>3kg</td>
<td>2kg</td>
<td>Min. required</td>
<td>+ 1L</td>
<td>0.7m² @ 6mm 0.3m² @ 12mm</td>
</tr>
</tbody>
</table>
APPLICATION CONDITIONS

- Use only in conditions where the application of cementitious mortars is suitable.

APPLICATION PROCESS


- Apply concrete and mortars as per specifications and normal practice.

CLEAN UP

- Clean all equipment with water before product dries.

SIZES

- Crommelin® High Performance Bonding Agent is available in a 1L can.

TRANSPORT AND STORAGE

- Size: 1L
- Weight: 1.1kg
- DG Class: N/A
- Cool and Dry Storage
- Flash Point: N/A
- Hazchem Code: N/A
- UN Number: N/A
- Poisons Schedule: N/A

SAFETY AND FIRST AID

Crommelin® High Performance Bonding Agent Safety Data Sheet is available from Crommelin® upon request.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

Any advice, recommendation, information, assistance or service provided by Crommelin® in relation to its products or their use is given in good faith, however is provided without responsibility or liability.

Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.