Concrete Bonder & Fortifier
Bonding agent and/or admix to improve strength and durability of concrete
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Product Description
SAKRETE® Concrete Bonder & Fortifier is a high-solids acrylic liquid bonding agent that may be used as either a paint-on bonder (straight from the bottle) or as a fortifier/admixture (diluted with water, see mixing ratios chart) for use with mortar, cement, and sand mixes. When used as a bonder, it improves the bond between new and old concrete. When used as a fortifier/admixture in unmodified concrete mortars, patches and grouts, it improves tensile, flexural, and compressive strength, resistance to water penetration and freeze/thaw damage, reduces shrinkage and the need for wet curing, as well as improving the bond strength.

When/Where to Use
• As an admix to non-modified concrete, mortar, stucco, plaster, and grout mixes
• As a bonding agent to strengthen the adherence of new concrete to existing concrete, masonry, or stucco

Advantages
• Increases bond strength to concrete, brick, block, terrazzo, metal, wood, glass, and many substrates
• Concentrated (can use full strength or dilute with water at job site)
• Improves tensile, flexural, and compressive strength in cementitious mixes
• Increased resistance to freeze-thaw cycles, salt, and chemical damage
• Reduced water permeability
• Extends open time in mortars
• Creates more durable cement-based materials
• Polymer has excellent UV resistance
• Superior strengths over styrene-butadiene rubbers, polyvinyl acetates, and non-modified mortar

Packaging
1 gal. (3.785 L) bottle  (BOM 120036)

Typical Yield
As a primer 1 gal. covers 500-800 sq. ft. (46-74 m²)
Admixture coverage will vary based on use of the product.

Note: When higher physical performance is required, the ratio of Concrete Bonder & Fortifier may be increased to meet project requirements. A ratio of 1 part Bonder to 3 parts clean, potable water (1:3); up to 1 part Bonder to 1 part clean, potable water (1:1) is acceptable.

Surface Preparation
Area to be resurfaced should be structurally sound and non-flexing. Clean the area thoroughly removing all dust, waxes, sealers, old adhesive residues, curing compounds, dirt, oil, grease, paint, and loose material prior to application. Existing concrete surfaces should be fully cured, free of hydrostatic pressures and efflorescence. Sandblast, hammer, or chip out loose, poorly bonded substrates prior to making repairs. Always follow the preparation steps for the product being modified with Concrete Bonder & Fortifier. For best results all materials should be stored between 40°F (4°C) and 80°F (27°C) 24 hours prior to installation.

Application
Concrete Bonder & Fortifier can be used in two ways. Where improved resistance to water or chemical penetration or resistance to freeze/thaw damage are the primary concerns, use as a fortifier/admixture. Where improving bond strength is the main concern, use as a paint-on primer.

For use as a paint-on bonder/primer:
Gently stir Concrete Bonder & Fortifier and apply with a paintbrush. Cover the area completely to insure proper bond. Primer coat should be tacky to the touch during application of fresh patching material. Apply the prepared patching material and trowel to a smooth finish.

For use as a slurry coat:
For best results mix a slurry consisting of 2 parts Concrete Bonder & Fortifier with 1 part Portland cement. Apply slurry with a paint brush. Cover the area completely to insure proper bond. Slurry coat should be tacky to the touch during application of fresh patching material. Apply the prepared patching material and trowel to a smooth finish.

For use as a bond fortifier/admixture:
Can be diluted at a ratio of 1:3 up to 1:1 parts Concrete Bonder & Fortifier to clean water and used in place of the liquid called for in non-modified concrete mortar, stucco, plaster, and grout mixes. Job site factors such as substrate, horizontal or vertical application, and weather conditions should be taken into consideration for the mixing ratio.

Curing
Refrain from using curing/sealing compounds over patching materials for a minimum of two weeks. Protect patches from rapid drying on hot, windy days.

Clean up
Warm, soapy water may be helpful for cleaning hands and tools.

Typical Quarts of Liquid

Mix entire contents thoroughly before using by gently stirring. Do not create bubbles or foaming by shaking the product.

### Typical Yield

<table>
<thead>
<tr>
<th>Typical Mix</th>
<th>Mix Ratio</th>
<th>Total Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Bonder/ Fortifier</td>
<td></td>
</tr>
<tr>
<td>80 lb Preblended Mortar</td>
<td>3¼</td>
<td>1¼</td>
</tr>
<tr>
<td>60 lb Preblended Mortar</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>60 lb Concrete Mix</td>
<td>1¼</td>
<td>1¼</td>
</tr>
<tr>
<td>60 lb Sand Mix</td>
<td>2¼</td>
<td>2½</td>
</tr>
</tbody>
</table>

### Mixing

- Mix entire contents thoroughly before using by gently stirring. Do not create bubbles or foaming by shaking the product.

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Clean up
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### Helpful Items:

- Safety Glasses
- Brush
- Gloves
- Water
- Paint Stick
- Pail

### KEEP FROM FREEZING

### WARNING: INJURIOUS TO EYES!

### KEEP OUT OF REACH OF CHILDREN!
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NOTE: Proper application and installation of all SAKRETE products are the responsibility of the end user.

Notes and Limitations
• Do not use Concrete Bonder & Fortifier in modified mixes when the ambient air or surface temperature is below 40°F (4°C) within 24 hours.
• High relative humidity, excessive moisture, and colder temperatures will retard the curing of modified mixes.
• Do not over mix or aerate mixes
• Do not use with air-entrained cement mixes or with air entraining admixtures
• Use with proper ventilation
• Shade and protect patch in windy and/or hot weather conditions
• Clean trowel frequently during product application. Do not over trowel areas
• Protect, do not freeze liquid

Warning
Vapors may cause irritation of eyes, nose, and throat. May cause skin sensitization or other allergic responses. HARMFUL IF SWALLOWED. Do not breathe vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Close container after each use. Do not transfer to unmarked container. FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get prompt medical attention; for skin, wash thoroughly with plenty of soap and water. If vapors or fumes are inhaled, remove person to fresh air. If swallowed, give plenty of water and call a Physician immediately. DO NOT INDUCE VOMITING. KEEP OUT OF REACH OF CHILDREN. READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product.

Limited Product Warranty
The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the dates the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement of defective products or, at the manufacturer’s option, refund of the purchase price CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.

Environmental Advisory
Uncured or crushed cured cement is an environmental hazard, which may adversely affect fish and wildlife. Dispose of construction debris containing cement, including empty bags, at a permitted municipal disposal firm. Do not use crushed concrete as a fill near an aquatic habitat.

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<table>
<thead>
<tr>
<th>Shelf Life</th>
<th>One year in original, unopened container.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Conditions</td>
<td>Store dry at 40-95°F (4° - 35°C). Protect from freezing.</td>
</tr>
<tr>
<td>Color</td>
<td>White, dries to clear.</td>
</tr>
</tbody>
</table>