1. PRODUCT NAME
FARRELL BONDING AGENT

2. MANUFACTURER
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3. PRODUCT DESCRIPTION
Farrell Bonding Agent is an acrylic latex liquid bonding agent and an admix (in place of water) for cement mortar patching and resurfacing. Mixed with a cement/sand or gravel combination, it becomes an effective patching and topping mortar having excellent adhesion capabilities and resistance to abrasion, freeze/thaw cycling, industrial chemicals and deicing salts and chemicals. The mortar produces a strong, durable patch with excellent retention of flexibility and elongation and does not discolor after exterior exposure to heat, cold and aging.

Less water introduced into the mix produces higher density to the mortar, ready workability and less shrinkage. Improved hydration of the concrete is maintained by the barrier action of the polymers, which is particularly important on applications of thin overlays and spray coatings that do not have the moisture retention characteristics of a thicker mortar placement. Farrell Bonding Agent is economical to use because of its performance, low maintenance costs, savings in material and labor cost and further sealing and curing processes are not required.

Field and laboratory tests prove superior tensile, compressive, flexural shear bond and impact strengths over styrene-butadiene rubbers, polyvinyl acetates and unmodified mortar.

4. TECHNICAL DATA
- Solids Content: 28%, nonflammable; no disagreeable odor.
- Dry Time: Normal use allow 24 to 48 hours. Heavy traffic allow 4 days.
- Viscosity: Slightly thicker than water.
- Potlife: 1 - 2 hours
- Set Time: 4 - 6 hours, (Typical sand/cement mix).
- Applicable Standards: ASTM C-1059, C-190, 109, 348 and 321
- Exceeds the requirements of ASTM C1059, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete.
- A.I.M. Category: Primers and Undercoaters
- A.I.M. Definition: Primer-A coating formulated and recommended for application to a substrate to provide a firm bond between the substrate and subsequent coatings. Undercoater - A coating formulated and recommended to provide a smooth surface for subsequent coatings.
- VOC Content Limit: 350 grams per liter.

5. APPLICATION PROCEDURES
Preparation:
Remove all loose and/or crumbled material from area to receive the mortar. Sweep or air blow to remove as much dust as possible. Grease and oil stains should be removed with TK-101 Chemical Cleaner or other suitable cleaner. Rinse thoroughly; do not leave pools of water. Patch area should be free of frost.

Coverage:
Approximately 300 SFPG when used as a bonding agent.

Mixing:
Use clean, dampened containers and clean, dry sand in the cement mix. Thoroughly premix the sand/aggregate or gravel with the cement. Blend the Farrell Bonding Agent into the cement mix.

Typical mixes for 1 gallon Farrell Bonding Agent: 1 - 3 cement mix, 45# bag

COMPARISON OF WATERMIXED MORTAR VS. FARRELL BONDING AGENT

<table>
<thead>
<tr>
<th>STRENGTH</th>
<th>WATER</th>
<th>FARRELL BONDING AGENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile</td>
<td>235</td>
<td>645</td>
</tr>
<tr>
<td>Compressive</td>
<td>2390</td>
<td>5715</td>
</tr>
<tr>
<td>Flexural</td>
<td>610</td>
<td>1585</td>
</tr>
<tr>
<td>Impact</td>
<td>6</td>
<td>16</td>
</tr>
<tr>
<td>Abrasion Res.</td>
<td>23.8%</td>
<td>1.15%*</td>
</tr>
</tbody>
</table>

*B = % weight loss; lower value higher resistance

BASIC USES:
1) An admixture for mortar patching, filling cracks, floor underlayerment to level floors before tiling, precise building panels and beams, pavement and bridge deck repairs, setting pipes, spray and fill coats.

2) A bonding agent for plaster, stucco, cement and slurry coats. Apply concrete repair to “wet” Farrell Bonding Agent. If Farrell Bonding Agent is allowed to dry it will act as a bond breaker. Apply additional coat of Farrell Bonding Agent which will allow bonding agent to be tacky.

3) An admixture for cement base plaster and stucco mixes and base coats to reduce cracking and improve curing.

Installations:
Use on many substrates including old concrete, brick, masonry, terrazzo, wood, metals, glass and others.

Composition and Materials:
100% acrylic polymers in a water dispersion.

Limitations:
Protect from freezing; repeated freezing and thawing can cause instability and sedimentation. Not recommended for use with air entraining additives. Apply in temperatures of 45°F and above. Do not allow Farrell Bonding Agent to dry completely, prior to placing repair material.

Farrell Equipment & Supply Co., Inc.

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packaged sand mix; graded gravel mix, 80# bag packaged sand mix. Suggested resurfacing mixes per 1 gallon Farrell Bonding Agent.

<table>
<thead>
<tr>
<th>Depth (Inches)</th>
<th>Sharp Masons Portland Cement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 1/8</td>
<td>20 lbs. 20 lbs.</td>
</tr>
<tr>
<td>1/8 - 3/8</td>
<td>40 lbs. 20 lbs.</td>
</tr>
<tr>
<td>3/8 - 1</td>
<td>60 lbs. 20 lbs.</td>
</tr>
</tbody>
</table>

**Repair Work:**
When used as a bonding agent for patch repair or overlayment, saturate the area with Farrell Bonding Agent and place the mortar while the bonding agent is still in a tacky state. DO NOT allow it to dry before placing the ing agent is still in a tacky state. DO and place the mortar while the bonding agent is still in a tacky state. DO NOT allow it to dry before placing the mortar.

**Precautions:**
Farrell Bonding Agent Liquid Bonding Agent contains acrylic resins and a minimal amount of ammonia.

**First Aid:**
Ingestion: Induce vomiting; call physician immediately. Eye contact: Do not rub, flush with clear water. Skin contact: Flush with clear water. Call physician if eye or skin irritation persists. KEEP OUT OF REACH OF CHILDREN.

For safety control, Material Safety Data Sheets are available from the Farrell Equipment & Supply Co., Inc. Stores or the Farrell Equipment Website. This information should be read before using this product.

**6. AVAILABILITY**
Farrell Bonding Agent is packaged in 55 gallon drums, 5 gallon pails and 1 gallon containers and is available through Farrell Equipment & Supply Co., Inc.

**7. CONDITIONS OF SALE / LIMITED WARRANTY.**
Farrell Equipment & Supply Co., Inc. warrants that this product conforms to the label descriptions, is free from manufacturing defects, and is fit for the ordinary purposes for which such goods are used. Inasmuch as the use of this product by others and other factors affecting product performance are beyond Farrell Equipment’s control, Farrell Equipment does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose. SHOULD THIS PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, FARRELL EQUIPMENT WILL REPLACE THE PRODUCT OR, AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF THIS PRODUCT TO PERFORM AS WARRANTED AND SHALL ALSO

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