**B-TUFF® MMA HS**

Flexibilized, Methacrylate Crack Healer Sealer

### 1.01 DESCRIPTION

B-Tuff® MMA HS is a specially formulated, flexibilized, Methacrylate sealer composition that has been developed for sealing of related cracking in Portland cement concrete, latex modified and/or silica fume (micro silica) concrete.

### 1.02 USES

- Bridges
- Parking Garages
- Piers
- Slabs, any horizontal concrete surface
- Wharfs

### 1.03 FEATURES

- Compatible with other PSI MMA systems
- Excellent bond – high strength and durability
- Freeze thaw resistant
- Highly elastic
- Protects against water and salt ion intrusion
- Rapid curing (1 hour)
- Resistant to weathering, aging and UV exposure
- Steel & Concrete compatible
- Waterproof
- Wide application temperature range: 14°F to 90°F (-10°C to 40°C)

### 1.04 TECHNICAL DATA

Conforms to published specifications for the following DOT's & entities: Washington, Montana, California, Nevada, Virginia, FHWA, and Bureau of Reclamations.

### 1.05 COLOR

Bluish to clear

### 1.06 PACKAGING

B-Tuff® MMA HS is packaged in 47.5 gallon (180 kgs) drums. The powder hardener is provided in separate labeled containers or in premeasured quantities.

### 1.07 COVERAGE

Application rate is 100 sqft/gallon (2.5 sqm/liter)

### 1.08 PREPARATION

Surface must be dry for 24 hours and just prior to application cracks should be cleaned with dry high pressure compressed air, or damp, but free of standing water and frost. Surface should be sound with no loose materials. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Prepare surfaces per ICRI Guideline NO. 310.1R. Shot blast, blast clean, or use other approved mechanical means to provide an open roughened texture. In some cases, at the engineer’s discretion, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient.

### 1.09 MIXING

B-Tuff® MMA HS must be mixed for 1-2 minutes with the appropriate amount of PSI’s activator just prior to application. Air/substrate temperature determines the amount as follows:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Volume (Ounces)</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>41°F (5°C)</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>50°F (10°C)</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>59°F (15°C)</td>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td>68°F (20°C)</td>
<td>20</td>
<td>3</td>
</tr>
<tr>
<td>68°F (30°C)</td>
<td>30</td>
<td>2</td>
</tr>
</tbody>
</table>

* Please consult PSI Technical Services for applications outside this temperature range.

### APPLICATION

2.01 APPLICATION

B-Tuff® MMA HS is applied as a flood coat in a gravity-fed process by squeegee or roller. The contents of the mixed batch should be immediately poured onto the substrate and worked into cracks by distributing with 1/2” to 3/4” (13–20 mm) nap solvent grade rollers or broom. Do not allow material to pond. Application rate is 100 sqft/gal (2.5 sqm/liter). Do not allow the mixed batch to remain in the mixing vessel. It is advisable to randomly broadcast a 30 mesh (600 μm), dry aggregate into the wet, uncured resin at the rate of approximately 4 lb/100 sqft (200 g/sqm). Working time for B-Tuff® MMA HS is between 10 and 15 minutes once the hardener has been added and should be immediately applied to the substrate. Full cure to specification will be between 45 minutes and 1 hour.

Pre-treat wide cracks: Cracks over 1/8” (3 mm) should be treated individually prior to deck application. Full depth cracks may require alternative treatment to prevent runoff of resin. Fill wider cracks with
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DISCLAIMER
All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user’s responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation. The material should be stored optimally at 77°F (25°C) in a cool, dry area away from direct sunlight. At temperatures below 59°F (15°C), the paraffin dissolved in the binder may precipitate. The material must be thoroughly be stirred before use. The shelf life of properly stored, unopened containers is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life expectancy.

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