

# K A U F M A N

PRODUCT  
INFORMATION

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## Patchwell BSL

### Description

Patchwell BSL is a single component, polymer-modified, cementitious, fast-setting non-sag concrete repair mortar. It consists of portland cements, lightweight hollow silica spheres, corrosion inhibitors and proprietary modifiers. When mixed with water, Patchwell BSL forms an extremely workable mortar that possesses high strengths, with excellent adhesion and low permeability against carbon dioxide and chloride intrusion. Patchwell BSL has extremely low shrinkage, and increased resistance to the effects of freeze-thaw cycling and exposure to deicing chemicals.

### Uses

Patchwell BSL is recommended for vertical and overhead concrete repairs. Under normal conditions, it is self-curing and allows for quick, easy repairs of both interior and exterior surfaces. Use for patching scaled and spalled concrete as well as resurfacing damaged and honeycombed surfaces. It is ideal for use on parking structures, bridges, retaining walls, ceilings, sloped surfaces, beam seat leveling, or anywhere concrete surfaces need repair. Use from 1/8" up to 2" thick overhead and 3" thick on vertical surfaces.

### Physical Properties - @ 75°F

Vicat Set Times (ASTM C-191)		
Initial, 25 mm		~45 minutes
Final		~3 hours
Compressive Strength (ASTM C-109)		
1 Day		3,500 psi.
7 Days		5,500 psi.
28 Days		7,400 psi.
Slant Shear Bond Strength, (ASTM C-882)	7 Days	2,000 psi.
Freeze-Thaw Cycling (ASTM C-666, Procedure A)	96% @ 300 Cycles	
Freeze Thaw Cycling (PTM 633; Maximum 8% Loss)		<4%

### Packaging /Yield

50 lb. bag of powder, yielding .45 ft<sup>3</sup>  
50 lb. pail, yielding .45 ft<sup>3</sup>

### Surface Preparation

The concrete substrate must be structurally sound. The concrete surface must be clean, free of all contaminants and all deleterious materials. The surface must be prepared to a minimum of 1/16" or to a Concrete Surface Profile (CSP) of five, as per Guideline Number 03732, Selecting & Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays from the International Concrete Repair Institute (ICRI). Saw cutting of all concrete edges is the preferred method, and a dovetail is recommended. Make certain that the repair area is at least 1/8" in depth. Additionally, once prepared properly, the concrete surface must be saturated surface dry (SSD), unless using a bonding agent. If steel reinforcement is exposed, it should be prepared by mechanical means to remove all rust. If corrosion has occurred the steel should be prepared with high-pressure water after the mechanical preparation. For proper priming of the steel, use SurePoxy HMEPL.

### Mixing

Pour up to 3.35 quarts of clean water into a mixing container and then slowly add the dry powder. Mix mechanically with a 1/2" drill and mixing paddle. Continue to mix until uniform. Do not ever add plasticizers, accelerators, retarders, or any other ingredients besides potable water unless advised by Kaufman Products in writing.

### Application

Patchwell V/O must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair, working toward center. After filling repair, consolidate, then screed. Material may be applied in multiple lifts or at least 1/8" to 3". When using multiple lifts, be sure to score top surface of each lift to produce a roughened surface for the next lift, make certain that the prior lift is saturated with potable water prior to applying the next lift, and use either a bonding agent or a slurry coat to enhance the bond of subsequent lifts. Allow preceding lift to reach final set before placing fresh material. Do not add additional water for finishing, but rather use VaporAid or VaporAid RTU.

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## **Curing**

As per ACI recommendations for portland cement concrete, curing is beneficial. Moist cure with wet burlap or polyethylene, a fine mist of potable water or a solvent-based curing & sealing compound, such as Krystal 25, Krystal 30, Krystal 25 OTC, Krystal 30 OTC, or a state-approved product where applicable. Do not apply subsequent lifts to a surface that has had curing compound applied.

## **Precautions**

Not recommended for use less than 1/8" thick. Temperatures during application should be at least 45°F and rising. Do not allow material to freeze. Do not apply outdoors when rain or moving water is expected within 5 hours. Protect freshly applied mortar from direct sunlight. Substrate strength should be tested in accordance with ACI 503 Appendix A prior to application. Follow all guidelines from both ICRI and ACI regarding the size, shape, and depth of the repair area. Avoid contact with aluminum. Shelf life is approximately one year. Read complete Safety Data Sheet before using.

## **Technical Information**

The following results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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