

# K A U F M A N

PRODUCT  
INFORMATION

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## Patchwell Light

### Description

Patchwell Light contains a combination of special light colored cements, corrosion inhibitors, dry powdered polymer latex, dispersing and plasticizing agents. It is a powder material, ready to use with the addition of only water. Patchwell Light enables patching and/or resurfacing of concrete areas, inside or outside, above or below grade, from 1/2" down to a true feather-edge.

### Uses

Patchwell Light is ideal for the reinstatement of large, structural sections of steel-reinforced concrete as well as for many smaller locations where difficult access makes hand or trowel-applied mortars impractical. It is suitable for use where chloride and carbon dioxide resistance is required. Patchwell Light is alkaline in nature and will protect properly prepared embedded steel reinforcement.

### Physical Properties - @ 75°F

Compressive Strength	1 day	2,400
ASTM C-109	7 days	5,800
	28 days	7,000
Flexural Strength	1 day	500
ASTM C-78	7 days	1,200
	28 days	1,700
Tensile Strength	1 day	200
ASTM C-496	7 days	350
	28 days	530
Vicat Set Time		
Initial		2.0 hrs.
Final		2.5 hrs.

### Packaging/Yield

@ 1/8" thick, yield is 44 ft<sup>2</sup>

@ 1/4" thick, yield is 22 ft<sup>2</sup>

@ 1/2" thick, yield is 11 ft<sup>2</sup>

One bag is equivalent to .45 ft<sup>3</sup>

### Directions

#### Surface Preparation

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). 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 SurePox HMEPL or SurePox HM 24. Rinse thoroughly with copious amounts of clean water under pressure to remove all acid and loose laitance. Dampen substrate thoroughly for 1/2 hours prior to placement of the Patchwell Light. This will control the temperature and the suction rate of the substrate. Never apply over puddles of free standing water.

### Mixing

.9-1.0 gallons of water per 50 lb. bag.

Always add the powder to the water. Mix until all pockets of dry material are thoroughly blended into the liquid. A 1/2" heavy-duty type drill with paddle blade and 500 rpm maximum speed should be used for mixing the material more easily.

### Bonding Slurry

After mixing, add an additional quart of water (per 50# bag) and mix to a creamy consistency. Brush onto the already prepared substrate. Be sure to work the slurry into the pores with a stiff bristle brush for maximum bonding efficiency. Maintain 1/16"-1/8" thickness over the entire area to be topped. Apply topping or patch before slurry starts to dry.

### Application

*Horizontal patching and toppings.* Prepare bonding slurry as described above and scrub intimately into surface. If surface is very rough, this step can be eliminated. While still wet, apply Patchwell Light without any extra water and bring to proper elevation. Steel floating/troweling should be limited to several passes about 10 minutes after placement. Excessive troweling can cause separation and cracking within the patch. This material is self curing. Do not apply thicker than 1/2" at any one time. For thicker applications, either extend Patchwell Light with up to 25 lbs. of 3/8" pea gravel.

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## **Curing**

As per ACI recommendations for Portland cement based materials, curing is beneficial. Moist cure Patchwell Light with wet burlap, polyethylene, a fine mist of potable water, or a solvent-based curing & sealing compound, such as Krystal ReFresh, Krystal ReFresh OTC, Krystal 25, Krystal 30, Krystal 25 OTC, or Krystal 30 OTC. Never apply a curing/curing & sealing compound if subsequent lifts are to be applied on top of Patchwell Light.

## **Precautions**

Avoid air entrapment caused by excessive mixing. Do not add excessive amounts of water, as this will weaken the mortar. Over-troweling results in discoloration and a weak cracked surface. Do not apply when substrate or ambient temperatures are below 40°F. If applications over 1/2" are required, contact KPI. Existing expansion joints should be maintained. When application occurs over joints, the original joint must be reproduced in Patchwell Light. Use of a joint-forming tool or saw cutting can be used. Steel strips can also be inserted in the old joint and brought to elevation just below the top surface of Patchwell Light. Cracks in the substrate must be repaired properly before resurfacing with Patchwell Light, otherwise they will reappear in the new Patchwell Light. Consult your KPI representative. Read 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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