

# K A U F M A N

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INFORMATION

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## PATCHWELL

### Description

Patchwell contains a combination of special 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 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 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 is alkaline in nature and will protect properly prepared embedded steel reinforcement.

### Packaging/Yield

50# bag/50 ft<sup>2</sup> @ 1/8" thickness  
.45 ft<sup>3</sup>

### Physical Properties - @ 75°F

Compressive Strength ASTM C-109	1 day	2400
	7 days	5800
	28 days	7000
Flexural Strength ASTM C-78	1 day	500
	7 days	1200
	28 days	1700
Tensile Strength ASTM C-496	1 day	200
	7 days	350
	28 days	530
Vicat Set Time		
	Initial	2.0 hrs.
	Final	2.5 hrs.

### Directions

#### Surface Preparation

Clean surface to remove all foreign matter including curing compound and form release agents. Remove all unsound concrete. Acid etching (with a 1:1 muriatic acid: water solution) water or sand blasting are recommended to bond to smooth troweled concrete. 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. This will control the

temperature and the suction rate of the substrate. Never apply over puddles of free standing water.

### Mixing

.9-1.0 gal. 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 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 with up to 25 lbs. of 3/8" pea gravel or use Patchwell Deep from 2" down to about 1/4" and then bring to a feather-edge with this product

### 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. 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. Cracks in the substrate must be repaired properly before resurfacing with Patchwell, otherwise they will reappear in the new Patchwell. Consult your KPI representative. Read Material Safety Data before using.

