

# K A U F M A N

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## Patchwell V/O

### Description

Patchwell V/O is a single component polymer modified, cement based fast setting non-sag mortar. It consists of portland cements, lightweight hollow silica spheres, corrosion inhibitors and proprietary modifiers. When mixed with water it forms an extremely workable quick setting, polymer modified mortar that possesses high strength with excellent adhesion and low permeability against carbon dioxide and chloride intrusion. The coefficient of thermal expansion is similar to concrete.

### Uses

Patchwell V/O 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, or anywhere concrete surfaces need repair. Use from 1/4" up to 2" thick overhead and 3" thick on vertical surfaces.

### Physical Properties - @ 75°F

Vicat Set Times		
Initial, 25 mm		20-25 min.
Final		50-60 min.
Compressive Strength (ASTM C-109)	1 day 7 days 28 days	3,500 6,500 8,100
Slant Shear Bond Strength (ASTM C-882)	1 day 7 days 28 days	1,150 2,290 2,700
Tensile Strength (ASTM C-496)	1 day 7 days 28 days	310 510 750
Flexural Strength (ASTM C-348)	1 day 7 days 2 days	700 1020 1450
Coefficient of Linear Thermal Expansion		4.5 x 10

### Packaging /Yield

50 lb. bag of powder, yielding .45 cu. ft., .336 gal.)

### Surface Preparation

The concrete substrate must be structurally sound. Surfaces must be free of oil, grease, paint, corrosion, form release agents, dust, laitance or other surface contaminants.

Surfaces should be prepared by mechanical scarification or blasting with water or sand. Be sure to remove all dust or deposits produced during this phase. Pre-wet the surface with water to prevent absorption, especially during hot dry days.

### Mixing

Pour approximately 2 3/4 qts. 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.

### 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 1/4" When using multiple lifts, be sure to score top surface of each lift to produce a roughened surface for the next lift. Allow preceding lift to reach final set before placing fresh material. For structural bond strength, use SurePoxy HM or SurePoxy HM GEL.

### Application

If multiple lifts are to be used, each lift should be scratched and re-primed with slurry prior to the application of subsequent lifts. Initial cure should be achieved before the application of the next lift.

### Curing

As per ACI recommendations for portland cement concrete, curing is beneficial. Moist cure with wet burlap or polyethylene, a fine mist of water or a water based compatible curing compound, such as Krystal Emulsion. Do not apply subsequent lifts to a surface that has had curing compound applied.

### Precautions

Not recommended for use less than 1/4" thick. Temperatures during application should be at least 45°F. Do not apply outdoors when rain or moving water is expected within 5 hours. Shelf life is two years. Read Material Safety Data before using.

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