

# Aftek Penapatch Panel LW Repair Mortar 10kg

## Product Images



## Short Description

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Penapatch Panel LW is a fine filled, polymer modified, cementitious mortar, specifically formulated to provide cover for joiner plates in tilt slab or pre-cast construction. Panel LW is also used for repair of damaged concrete. The specially selected cements and polymers contained in Panel LW provide a mortar with strong adhesion to concrete and masonry on vertical substrates with negligible shrinkage.

It is ideal for patching repairs and covering metal joining plates in tilt up or pre-cast panels, and any high build up repairs where a non-structural repair mortar is required.

## Description

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Penapatch Panel LW is a fine filled, polymer modified, cementitious mortar, specifically formulated to provide cover for joiner plates in tilt slab or pre-cast construction. Panel LW is also used for repair of damaged concrete.

The light weight aggregates used in Panel LW allow for a build up to 100mm in one application. The specially selected cements and polymers provide a mortar with strong adhesion to concrete and masonry on vertical substrates with negligible shrinkage. Panel Patch LW requires the addition of water only.

Panel LW may be sanded to produce a smooth surface texture prior to painting or application of a render.

### Features:

- High build application up to 100mm for vertical applications
- Good adhesion to substrates, high bond strength
- High build repairs can be completed in one application
- Eliminates the need for formwork
- Shrinkage compensated resulting in long term dimensional stability
- Excellent workability
- May be coated with the Aftek range of protective and decorative coatings
- Fast drying, finishes off to a smooth surface
- Easy to use, just add water
- Australian made

### Ideal for:

- Patching repairs and covering metal joining plates in tilt up or pre-cast panels
- Repairing any damaged concrete or pre-cast or tilt up panels that is non-structural
- Repairs requiring high build application up to 100mm for vertical applications
- General high build up repairs where a non-structural repair mortar is required

## APPLICATION

### Surface Preparation:

All surfaces must be free of oil, grease, dust, plaster, paint and any other contamination that will inhibit the bond. Any cracked or weakened surface should be removed and repaired to provide a solid foundation. It is recommended that for large areas a minimum depth of 5mm be prepared as to avoid excessive feather edging or skim coating. Break out the repair area to a minimum of 5mm up to the saw cut edge. Scabbing or high pressure water blasting should be used to remove laitance and provide a mechanical key. If any

corroded steel is present remove all loose scale and corrosion/rust deposits.

Grit blasting is effective in removing corrosion, and all steel including rebars should be cleaned to a bright condition. Immediately after cleaning steel, the steel should be treated with Aftek Zinc Rich Primer, this will stop further oxidation and corrosion.

For concrete / masonry, priming is not necessary. The substrate should be pre-soaked with water and excess water removed prior to application of Penapatch Panel LW. For very porous substrates all masonry surfaces should be primed with Aftek Rendergrip B, allow the primer to reach a tacky consistency before applying Penapatch Panel LW.

For steel / rebar: Exposed steel and rebar should be primed with Aftek Zinc Rich Primer.

### **Mixing:**

Add the powder to 3.1 to 3.6 litre of water and mix using a mechanical forced action mixer with a high shear spiral mixing paddle. Do not mix by hand, or add excess water. Excess water will reduce the ultimate (final) strength and extend the drying time of the product. Additional or excess water will increase the sag and reduce the build up of the mortar. Only mix the quantity of material that can be used within the set time of the material. Discard partially set or hardened material.

### **Placement:**

Apply the mixed material to the prepared surface using a trowel or a gloved hand. Thoroughly compact the mortar into the prepared substrate and around the exposed steel reinforcement and rebars. A smooth surface can be obtained using a steel trowel. DO NOT OVERWORK THE SURFACE.

Curing should be conducted using a suitable curing compound, such as Curecon A, applied in accordance with the Technical Data Sheet.

### **Clean Up:**

Wash all tools and equipment with fresh clean water immediately after use. Penapatch Panel LW can only be removed mechanically.

### **Storage:**

Up to 12 months if stored in the original sealed packing.

### **Yield:**

1 bag will yield 15 litres at 3.5 litres water per 10kg bag.

## Additional Information

CODE	40-AFPLW
U.O.M	Each
Colour	Grey
Suits Substrate	Concrete, Masonry
Pallet Quantity	64 bags
Brand	Aftek
Range / Model	Penapatch
Size	10 kg
Appearance / Composition	Powder
Application Thickness (mm)	Up to 100mm in one application
Cure Time	Initial - 3 hours, Final - 5 hours
Compressive Strength at 7 days (MPa)	18
Compressive Strength at 28 days (MPa)	20
Yield	15 litres per bag
Modulus	26

