

# CONCRETE PATCH REPAIR

## ThistleBond

A Division of E. Wood Ltd., U.K.



ThistleBond 'Concrete Patch Repair' is a high performance self priming polymer repair mortar specifically designed for repairing damaged and eroded concrete surfaces.

ThistleBond 'Concrete Patch Repair' is based on a unique blend of polymer resins with polyamino amine adduct with a blend of reinforced silica quartz minerals which have been specifically selected to provide optimum level of adhesion, abrasion impact and chemicals resistance.

ThistleBond 'Concrete Patch Repair' is a fast curing allowing repairs to be carried out on any concrete (will effectively bond on old, new, damaged concrete) with minimum disruption to services. 'Concrete Patch Repair' having outstanding compressive strength in comparison with normal concrete, thereby enhancing the load bearing capacities of floor to take care of heavy duty operations. It doesn't shrink even in variation of temperatures.

## SURFACE PREPARATION & APPLICATION PROCEDURE

### Mixing Base : Activator : Aggregate - 2 : 1 : suitable qty (part mixing)

Mixing can be done in the Base container then add Activator to it. Stir contents thoroughly and add Aggregate slowly in to base resins and mix properly.

### Surface Preparation

All dirt and loose friable material should be removed and surface cut back to a sound edge, if the floors are soaked with oil, use soap solution to thoroughly rinse and wash repeatedly, if required 'etching' should be done. Grit / sand blasting also can be done to get better surface. Allow the surface to dry.

### Priming

'Concrete Patch Repair' can be used without priming, on certain surfaces a coat of mixed 'Concrete Patch Repair' resins should be applied to prime / seal the surface.

### Application

The mixed can be applied by float or trowel to prepared surface with material being pressed firmly onto surface, then finished by float to give a smooth surface.

## CONCRETE PATCH REPAIR

### PHYSICAL PROPERTIES

Abrasion Resistance	145 mg loss / 1000 cycles
ASTM D4060	CS17 wheel 1 kg load
Impact Resistance	1.8 joules
ASTM D2794	(16 in lbs)
Dry Heat Resistance	135 °C
ASTM D2485	
Direct Pull Adhesion	35 kg/cm <sup>2</sup>
ASTM D4541	(500 psi)
Scrub Resistance	> 10000 cycles
ASTM D2486	
Compressive Strength	840 kg/cm <sup>2</sup>
ASTM D695	(12000 psi)
Flexural Strength	450 kg/cm <sup>2</sup>
ASTM D790	(6500 psi)
Shrinkage	Nil
ASTM C246	

### PHYSICAL CONSTANTS

Mixing Ratio	Mix as supplied.	
Appearance	Base	Clear Liquid
	Activator	Clear Amber Liquid
	Aggregate	Coloured
Drying Time @ 20°C		
Usable Life	25 Minutes	
Full Cure	3.5 Hours	
Volume Solids	100%	
VOC	Nil	
Shelf Life	5 years	
Food Contact	Meets USDA & FDA requirements	

### CHEMICAL RESISTANCE \*

Acetic Acid 0-10%	Excellent
Hydrochloric Acid 0-10%	Excellent
Nitric Acid 0-10%	Excellent
Phosphoric Acid 0-75%	Excellent
Sodium Chloride	Excellent
Crude / Diesel / Petrol	Excellent
Sulfuric Acid 0-10%	Excellent
Sea Water / Coolants	Excellent

### SUPPLY INFORMATION

**Stock No** : TPC610

**Description** : Concrete Patch Repair

**Pack Size** : 5 kg

\* for further information see Chemical Resistance Chart

### RECOMMENDED APPLICATIONS

Permanent repairs to floor cracks, ageing, deformities

- Shop floors, production floors, machine beds
- Loading decks, cracked sealing, concrete tank repair

### Distributor catering to your needs



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