



GRANOR FLEXPATCH

Polymer Patching Mortar

- *Polymer Based Repair Mortar for Patching of Concrete Bridge Decks, Rigid Pavements and Car Park Decks*
- *Fast Easy Installation*
- *Economical – Outlasts Cement based Patches*
- *Durable and Abrasion Resistant*
- *No Shrinkage*
- *Waterproof*
- *Elastomeric Characteristics*





GRANOR FLEXPATCH

Product Description

A three-component, 100% solids, multi-purpose, high-strength, non-shrink, waterproof, non-conductive, semi-flexible polymer patching mortar for longer lasting patches with excellent workability. The system combines a high quality polymer resin and curing agent with an engineered blend of graded aggregates.

Product Description

- Most **FLEXPATCH** repairs can be completed between peak hours.
- Contractor or maintenance crews can be easily trained to install **FLEXPATCH**.
- Required tools and equipment are simple and readily available.

Product Features

- Short traffic closures due to rapid set characteristics.
- No edge cracks as **FLEXPATCH** can be feathered to edges.
- Compatible co-efficient of thermal expansion to concrete (confirmed by independent Australian Road Authority Testing).
- Long wearing providing extended durability.
- Self priming.

Uses

- For repair of cracks, punch-outs, pot holes and spalling on:
 - Concrete Bridge Decks
 - Concrete Rigid Pavement Roadways
 - Parking and Garage Decks

Eliminate increased deterioration caused by cement based patches:



Cracking



Shrinkage



"Halo" Effect

Polymer Patching Mortar

Product Description

■ Surface Preparation:



Step 1: Remove all deteriorated and unsound concrete with chipping hammers not to exceed 15kg.



Step 2: Thoroughly clean patch area by grit blasting. Any exposed reinforcing steel shall be blasted to white metal finish.



Step 3: Blow all dust and loose particles from patch area with oil / moisture free compressed air.

■ Mixing:

FLEXPATCH supplied in 14 litre yield weatherproof plastic pail kits can be easily mixed in the packaging pail using a 13mm heavy duty geared hand held drill mixer with a large spiral jiffy-type attachment.

FLEXPATCH is also supplied in a 28 litre yield kit comprising of loose 1 US gallon containers of Parts A & B liquids and 2 bags of Part C quartz blended aggregate. This size kit is best mixed using a purpose barrel-type paddle mixer. Do not attempt to hand mix large quantities.

Step 1: Pour liquid components Parts A & B into a clean pail or barrel mixer and mix thoroughly for 3 minutes with the hand held drill and spiral jiffy-type mixer on low speed, or in a barrel mixer for the larger 28 litre yield kits.

Step 2: If mixing in a pail, while stirring slowly add the appropriate amount of component C (blended quartz aggregates) to the mixed **FLEXPATCH** liquid polymer till thoroughly mixed. Larger 28 litre kits are blended and mixed in an appropriately sized purpose barrel-type paddle mixer. These larger barrel mixers can be hired from Granor.

■ Patching Concrete:



If the depth of the patch is less than 25mm, prime the bottom and sides of the patch with "neat" **SSI FLEXPATCH** resin. DO NOT allow the prime coat to cure before placing **FLEXPATCH**.

Pour **FLEXPATCH** into prepared hole. Set screeds or float to desired level, strike off, thoroughly compact and finish with a steel trowel. Add topping – sand aggregate to suit.



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Economical

- **FLEXPATCH** provides for a cost / benefit outcome that surpasses other repair mortars.
- With its ease of repair, **FLEXPATCH** has one of the lowest life cycle costs of any comparable repair system.

Repairable

- If any area of a **FLEXPATCH** repair is damaged, only the damaged area needs to be replaced, unlike many other systems which need total removal and reinstatement.
- **FLEXPATCH** repairs can be accomplished quickly and economically with minimal equipment by maintenance personnel.

Availability

- The **FLEXPATCH** system is available from Granor Rubber and Engineering Pty. Limited. For information and technical assistance contact their head office in Bayswater, Victoria.

Packaging & Coverage

KIT SIZE & Packaging Mode	Contents of Kit	Number of Kits per cubic Metre
14 litre yield kits packaged in sealed weatherproof plastic pails	Consisting of 2 litre containers each of part "A" and "B" and 1 x 20kg bag of pre-blended quartz aggregate	72 number x 14 litre yield kits is equal to 1 cubic metre of FLEXPATCH
28 litre yield kits packaged as loose separate containers of polymer liquids and bags of pre-blended aggregate	Consisting of 4 litre containers each of part "A" and "B" and 2 x 20kg bag of pre-blended quartz aggregate	36 number x 28 litre yield kits is equal to 1 cubic metre of FLEXPATCH

Shelf life: 1 year in original unopened container(s)

Storage Conditions: Store at 10° to 32°C. Condition material prior to use to 18° to 27°C.

Typical Physical Properties

Compressive Strength	PSI @ 4 hrs. (Method B)	1500 Min (10.3 MPa)	ASTM C 579
	PSI @ 24 hrs. (Method B)	2400 Min (16.5 MPa)	ASTM C 579
Bond Shear Strength	PSI	650 Min (4.5 MPa)	ASTM C 882
Liner Shrinkage	Percent	0.00%	ASTM C 531
Abrasion Resistance	Wear Index (Taber H-22)	1.0 Max	ASTM C 501
Chloride Ion Permeability	Coulombs	1.0 Max	AASHTO T-277
Resilience	Percent	70 Min	OK/OHD L-6
Thermal Compatibility	Pass	Pass	ASTM C 884