

PB1/PB60 Resin Grout Mix and Pour



Reinforced polyester anchoring system

Uses

PB1 and PB60 'Mix and Pour' resin grouts are used as an anchoring medium for fixing bolts or starter bars in concrete, rock or masonry.

Advantages

- Rapid strength gain quickly reaching maximum final load strength
- Good adhesion to bolt and substrate
- Higher ultimate compressive strength, strong, rapid and consistent anchorage
- Simple to use, supplied in complete packs containing the correct amount of resin and catalyst
- Easy application, just mix and pour
- Choice of PB1 or PB60 resin enables selection of appropriate set time
- Higher modulus
- Protects bolt from corrosion
- Unaffected by vibration
- No expansion stresses, can be used in weak substrates

Description

PB1 and PB60 'Mix and Pour' resin grouts consist of two components, a reinforced polyester resin and an organic peroxide catalyst. When the two components are mixed together and poured into the anchorage a chemical reaction occurs transforming the resin mastic into a solid anchor. Choice of PB1 or PB60 enables selection of appropriate set time.

Technical Support

Minova Australia, together with your local distributor offers a complete technical and field support service.

Properties

Typical properties at 25°C are as follows:

	PB1	PB60
Working time (mins)	10	40

The times listed are an indication only; they may vary with temperature, mixing, application equipment and age of resin grouting components.

Compressive strength

Tested on 40mm cubes, typical results.

Age	Uniaxial compressive strength (MPa)	
	PB1	PB60
1 hour	59 - 63	45 - 54
4 hours	63 - 66	54 - 58
24 hours	64 - 70	63 - 67
7 days	68 - 74	66 - 72

Application Instructions

Preparation

Hole must be free and clear of loose particles, dust or impacted fines and where possible water.

Mixing

Ensure resin mastic component is thoroughly stirred before use.

Mix catalyst with resin thoroughly for at least 1 minute before pouring into hole. Use 1 tube of catalyst for 1 pail of resin (equivalent to approximately 2g catalyst per 100g resin).

Rotate bolt back and forth in mix to obtain effective contact between bolt and resin mix.

Clean mixing equipment immediately after use.

For further information consult Minova Australia or your local distributor.

Limitations

Low temperatures will result in extended set times.

Estimating

Packaging

PB1 and PB60 mix and pour components are supplied in 3 litre or 1 litre plastic pails. The catalyst component is supplied in 140g or 60g tubes.

One of 140g tube is required per 3 litre pail of resin and one of 60g tube per 1 litre pail of resin.

Yield

Allowance should be made for wastage when estimating.

Storage

Shelf life

PB1 and PB60 mix and pour resin and catalyst components have a shelf life of 4 months when stored below 25°C. Stock rotation is strongly recommended. The resin mastic component should be stirred thoroughly prior to use.

Storage conditions

Store in a cool, dry place away from direct sunlight. Do not double stack pallets.

Precautions

Health and safety

Wear suitable protective clothing, gloves and eye/face protection.

- In case of contact with skin remove contaminated clothing and wash with soap and water, seek medical attention if skin irritation persists
- In case of contact with eyes, flush with copious amounts of water and seek medical assistance
- If inhaled remove from exposure and seek medical advice if effects persist
- If ingested wash out mouth with water and obtain medical attention

Mastic component

- Product may burn if ignited
- Open in well ventilated area
- Excessive vapours can irritate eyes and respiratory system
- Avoid all contact with flames or sparks
- Reseal container immediately after use

Catalyst component

- Product will burn if ignited
- Apply water from safe distance to prevent re-ignition
- Avoid all contact with flames or sparks
- Reseal container immediately after use

For further information see the relevant material safety data sheet, copies of which are available on our website.

Additional information

Minova Australia offers a comprehensive range of strata control products, all of which have been developed after extensive research and testing on a global scale via our international network of operations. These products include:

- Resin anchor systems
- High yield grouts and foams
- High volume output grouts
- Monolithic chock systems
- High performance cable bolt grouts
- Polyurethane resin systems
- Binder systems and accelerators for backfilling
- Pre-packaged high build spray cements
- Sprayable coatings for ventilation control
- Water stop grouts
- Ventilation Formwork Systems including: Meshblock, Gunmesh, Tecmesh and Tecplastic
- Grout Mixers and Batchers both air and hydraulically operated
- Flexible membranes for strata support and waterproofing applications
- Contract Installations

If further information is required consult Minova Australia.

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