

technical data sheet

PATCHFIX COARSE FILLER

Pre blended coarse graded mineral filler

PRODUCT

Patchfix Coarse Filler is a coarse graded inorganic pre blended mineral filler.

DESCRIPTION

Patchfix Coarse Filler is an inorganic pre blended mineral filler consisting of coarse graded quartz aggregate for mixing with Patchfix Epoxy Binder, Techflow Epoxy Grout, Ultralevel range of levelling compounds or other Epoxy Resin binders.

RECOMMENDED USES

- Use for mixing with Patchfix Epoxy Binder, Techflow Epoxy Grout or other Epoxy Resin binders to produce mortars of various consistencies.
- Large sections can be repaired if used as a trowel applied mortar.
- Can produce consistencies ranging from pourable grout to high build trowellable mortars.
- Economical repairs requiring high strength.
- Non skid surfaces.
- Preparation of concrete mortars and mixers.
- Can be added to cementitious repair mortars to bulk out.
- Can be added to Ultralevel range to bulk out for thick sections.

FEATURES AND BENEFITS

- Compatible with most Epoxy systems.
- Compatible with most cement based systems.
- Convenient bag size.
- Economical.
- Uniform particle size grading.
- High graded quartz.

COVERAGE / YIELD

1 litre of mixed material will cover 1m² at 1mm thick. Refer to Tables 1 and 2.

PACKAGING

Patchfix Coarse Filler is supplied in a 20kg polylined bag.

PERFORMANCE PROPERTIES

The following may be used as a guide for the quantity of Patchfix Coarse Filler required to obtain a specific consistency when **Techflow Epoxy Grout** is used as a binder.

| Litres of Techflow Epoxy Grout | Approx. weight of Patchfix Coarse Filler | Approx. Yield (litres) (Resin and Fillers) | Mixed Consistency | Pot Life 20°C (minutes approx.) | Compressive strength at 7 Days MPa approx. | Tensile strength at 7 days MPa Approx | Flexural strength a 7 days MPa approx |
|---------------------------------------|---|--|------------------------|---------------------------------|--|---------------------------------------|---------------------------------------|
| 1 | 1.5 | 2 | Fluid Grout | 40-45 | 108 | 16 | 30 |
| 1 | 3.0 | 3 | Pourable Grout | 40-50 | 100 | 15 | 28 |
| 1 | 4.5 | 4 | Stiff Paste | 55-65 | 95 | 14 | 27 |
| 1 | 6.0 | 5 | Trowellable Mortar | 60-70 | 90 | 12 | 25 |
| 1 | 7.5 | 6 | Dry Mortar Trowellable | 65-80 | 85 | 11 | 25 |

The following may be used as a guide for the quantity of Patchfix Coarse Filler required to obtain a specific consistency when **Patchfix Epoxy Binder** is used as a binder.

| Litres of Patchfix Epoxy Binder | Approx. weight of Patchfix Coarse Filler | Approx. Yield (litres) (Resin and Fillers) | Mixed Consistency | Pot Life 20°C (minutes approx.) | Compressive strength at 7 Days MPa approx. | Tensile strength at 7 days MPa Approx | Flexural strength a 7 days MPa approx |
|--|---|--|------------------------|---------------------------------|--|---------------------------------------|---------------------------------------|
| 1 | 1.5 | 2 | Very Fluid Grout | 35-45 | 80 | 16 | 27 |
| 1 | 2.3 | 2.5 | Fluid Grout | 40-50 | 77 | 14 | 26 |
| 1 | 3.0 | 3 | Pourable Grout | 55-65 | 75 | 13 | 26 |
| 1 | 4.5 | 4 | Stiff Paste | 55-65 | 70 | 11 | 25 |
| 1 | 6.0 | 5 | Trowellable Mortar | 55-64 | 67 | 10 | 23 |
| 1 | 7.5 | 6 | Dry Mortar Trowellable | 65-70 | 65 | 10 | 20 |

Note:

1. For maximum adhesion of heavily filled mortars, the surface or substrate to be treated should be primed with Patchfix Epoxy Binder or Techflow Epoxy Grout unfilled before applying the mortar mix. Surface should be allowed to reach a tacky consistency before applying mortar.
2. The use of higher quantities of Patchfix Coarse Filler than those shown in the application mixing table guide will result in a porous mix, which may be susceptible to ingress of aggressive chemicals,
3. Patchfix Coarse Filler must be dry and moisture free. The presence of water in the mix will lead to lower strengths and high risk of air pockets formed by water trying to escape from the mix.

APPLICATION INSTRUCTIONS

SUBSTRATE AND SURFACE PREPARATION

The surfaces to which filled Patchfix Epoxy Binder and Techflow Epoxy Grout are applied must be clean, sound and free from dust and any loose particles. Cement laitance, oil, grease, mould release oil or curing compounds must be removed from concrete surfaces by using wire brush, bush hammer, scabblers, grit blasting or other means. Ensure that steel rebars are also clean from grease, oil or rust. When repairing spalled or deteriorated concrete, ensure that the concrete has been cut back to sound material. Steel surfaces should be degreased with a suitable solvents such as Bostik Solvent 9907 or treated by gritblasting. In many cases where corrosion is present, wire brushing to a clean bright surface is sufficient. During application, the temperature of the substrate should not be below 5°C. Avoid high surface temperatures, shade before and during the application.

MIXING

Follow the mixing directions as shown on Patchfix Epoxy Binder and Techflow Epoxy Grout data sheet and labels. Add the required quantity of filler as indicated in the table, Patchfix Epoxy Binder and Techflow Epoxy Grout must be mixed with a mechanical forced action mixer with a high shear stirrer.

APPLICATION

Apply the mixed Epoxy mortar to the concrete substrate which should be primed with Patchfix Epoxy Binder and Techflow Epoxy Grout unfilled. Both Patchfix Epoxy Binder and Techflow Epoxy Grout either filled or unfilled may be applied to a damp substrate **NOT WET**.

PRECAUTIONS

- Under no circumstances should the ratio of resin to curing agent be altered from the recommended proportions in an attempt to vary the working time. If accurate proportioning is not achieved substantial reduction in physical properties will result and complete cure will be effected.
- To obtain a trowellable high build consistency for vertical or overhead application it is recommended Patchfix Epoxy Binder be used with approximately 6-8kg of Patchfix Coarse Filler per litre of Patchfix Epoxy Binder.
- DO NOT USE PATCHFIX COARSE FILLER to produce a high build mortar for a vertical application, this will result in a slump, high sag mortar which will not remain on a vertical wall.
- For the deep section grouting it is recommended that Patchfix Coarse Filler is used with Techflow Epoxy Grout at 3kg of Patchfix Coarse Filler per 1 litre of Techflow Epoxy Grout, depth of up to 200mm can be achieved in a single application.

HEALTH AND SAFETY

Patchfix Epoxy Binder and Techflow Epoxy Grout contain epoxy resins and hardeners. Some people are sensitive to resins, hardeners and solvents.

- Avoid contact with skin and eyes and avoid breathing vapour.
- Use only in well ventilated areas.
- Wear suitable protective clothing, gloves and eye protection when mixing or using.
- If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, DO NOT induce vomiting, give a glass of water.
- If in eyes, hold eyes open, flush with water for at least 15 minutes and see a doctor.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.
- Bostik Material Safety Data Sheets (MSDS are available on request to the nearest Bostik office. Read the MSDS and Technical Data Sheet carefully before using any product.

CLEAN UP

Patchfix Coarse Filler and Epoxy should be removed from tools and equipment as with Bostik Solvent 9907, immediately after use.

STORAGE

Patchfix Coarse Filler has an indefinite shelf life on the condition that it is kept in a cool dry environment away from water and moisture.

If Patchfix Coarse Filler has been wet or contains moisture it should not be used, the product should be discarded.

FIRE

Patchfix Coarse Filler, Patchfix Epoxy Binder and Techflow Epoxy Grout are non flammable,

| ITEM NO | STOCK SIZE | COLOUR |
|-------------------------------|--------------|---------------|
| PATCHFIX COARSE FILLER | | |
| 272132 | 20kg | Beige |
| PATCHFIX FINE FILLER | | |
| 272140 | 20kg | Beige |
| PATCHFIX EPOXY BINDER | | |
| 272159 | 1 Litre Kit | Clear / Amber |
| 272167 | 4 Litre Kit | Clear / Amber |
| 272175 | 20 Litre Kit | Clear / Amber |
| TECHFLOW EPOXY GROUT | | |
| 267783 | 4 litre kit | Grey |
| 267791 | 16 litre kit | Grey |

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