

# APPLICATION GUIDE



## Fastfill

### USES

For the repair and profiling of both vertical and horizontal in situ and precast concrete where a rapid setting, yet durable, high strength mortar is required. It is ideally suited for the repair of concrete in locations which cannot be taken out of service for long periods and which are subsequently subjected to heavy wear. Typical applications include repairs to roads, runways, bridges, decks, floors and footpaths. Fastfill can be used as supplied up to 100mm deep, or can be bulked out with sharp aggregate for full section repairs up to 300mm.



### PREPARATION

- Remove all damaged concrete to a clean, sound substrate (free from laitance and other surface contaminants).
- Expose full circumference of reinforcement to at least 25mm behind the bar and 50mm beyond the point of visible corrosion.
- Remove any corrosive elements from the exposed reinforcement.
- Apply 2 x 1mm coats of **STEEL REINFORCEMENT PROTECTOR 841**, to the exposed steel.
- Step perimeter of repair site by approximately 10mm, thus avoiding "feathering".
- Roughen smooth surfaces.
- Saturate the substrate with clean water and allow to soak in, 24 hours prior to application.



### MIXING

- For normal application, pour 3.5 litres of clean water into a suitable mixing vessel and add the powder.
- Mechanically mix using a forced-action mixer, such as a Creteangle or Dominator, or with a slow speed drill and Epi mixer paddle, until powder is completely wetted out. Normal mixing time depends upon the type of mixer used; 1 minute is average. Mix to entrain as little air as possible and use without delay.
- If smaller quantities are being volume mixed at a ratio of 5.5 powder to 1 volume of water, then the bag should be well shaken prior to mixing.
- For **FASTFILL** bulked out with 10mm aggregate in the ratio of 1:1 by weight, the extra water addition is as follows:

| Extra Water            | Flow (mm) | Set Time (minutes) |
|------------------------|-----------|--------------------|
| 10% (3.9 litres total) | 160       | 30                 |
| 20% (4.3 litres total) | 175 – 180 | 35 – 40            |
| 30% (4.6 litres total) | 210 – 220 | 40 - 45            |

## APPLICATION

- An initial 5-10mm should be placed and well adhered before building up to larger depths.
- Use formwork where possible.
- For applications where more than one layer is required, the first layer should be severely cross-hatched or roughened and the next layer applied when the first has stabilised but not fully set (usually 15-30 minutes).
- Do **NOT** prime or wet out between layers.
- When applying to floors, divide up into areas to be completed in product working life. Repairs in excess of 1m<sup>2</sup> in area should be avoided. Do not over trowel.
- Brush the surface of the 'wet' repair with a stiff brush to give a slip resistant finish.



## CURING

Use **FLEXCRETE CURING MEMBRANES** or traditional techniques, such as damp hessian or polythene sheeting.

## SHELF LIFE

12 months from date of manufacture in dry, frost-free conditions in unopened containers at 20°C.

## SAFETY DATA

Safety Data Sheet available on request.

## POINTS TO NOTE

- For screeding applications up to a maximum of 100mm, a clean, washed Medium Grade concreting sand can be introduced into the mix, up to 50% by weight..
- For full section repairs up to a maximum single application of 300mm, or where a pourable concrete is required, coarse clean aggregates (5-10mm size) can be introduced into the mix in up to equal proportions by weight without adversely affecting its physical performance.
- For these bulked out applications, the initial water addition should be based on the quantity of **FASTFILL** in the mix using the standard ratio. A minimum amount of extra water should be added to give the required workability.
- Mixing equipment should be cleaned immediately after use.
- **Do not** use in freezing conditions. Can be applied at a minimum of 3°C on a rising thermometer or a minimum of 5°C on a falling thermometer.



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