



# STOPGAP 460

## RAPID REPAIR MORTAR FOR EXTERNAL FLOORS

Declared performance: Class R2 Mortar to EN1504-3:2005

### INTRODUCTION

**STOPGAP 460** is a polymer modified, fast setting mortar for repairing external floors prior to the application of STOPGAP 850 or for use in internal applications under STOPGAP waterproof surface membranes. It has been specifically designed for use in damp conditions and has excellent freeze / thaw resistance when used in external environments.

STOPGAP 460 can be used for the non-structural repair of lower strength concrete elements such as floor screeds, concrete paving slabs, balcony edges, stair treads and risers and is also suitable for producing gradients for ramps.

STOPGAP 460 is dimensionally stable and is supplied as a pre-blended dry powder designed for applications between 3-50mm. It is protein-free which allows it to be used in biologically sensitive areas.

STOPGAP 460 is suitable for use with sand/cement screeds and concrete and under STOPGAP waterproof surface membranes.

### COVERAGE

A 10kg bucket of STOPGAP 460 mixed with 2.6 litres of clean water will cover approximately 0.7m<sup>2</sup> at a thickness of 10mm.

### TECHNICAL INFORMATION

Classification to EN 1504-3: 2005	Class R2
Working time @ 20°C	10 - 15 minutes
Walk on time @ 20°C	60 minutes
Ready for covering	24 hours
Compressive strength N/mm <sup>2</sup> (EN 12190) 28 Days	>20.00
Flexural strength N/mm <sup>2</sup> (EN 196-1) 28 Days	>5.0
Density (EN 12190)	1630 kg / m <sup>3</sup>
Chloride ion content (EN 1542)	≥ 0.05%
Adhesive bond (EN 1015-17)	≥ 0.8 N/mm <sup>2</sup>
Thermal compatibility Part 1: Freeze-thaw (EN 13687-1)	≥ 0.8 N/mm <sup>2</sup>
Consumption per mm thickness	1.43 kg/m <sup>2</sup>
Application thickness:	Unfilled 3 - 20mm Filled Up to 50mm

### FEATURES

- Can be used in external applications
- Moisture tolerant
- Fast setting
- Ramps and coverings can be formed
- Can be used in vertical applications
- Low odour

### STANDARDS

When used as a non-structural repair PCC mortar for the repair principle 3 (CR), repair method 3.1, 3.2, STOPGAP 460 Mortar is in conformity with the relevant type requirements of EN1504-3:2005.

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## HOW MUCH MATERIAL

APPLIED THICKNESS	COVERAGE PER UNIT	CONSUMPTION PER 1M <sup>2</sup> AREA	GRADED AGGREGATE
3mm	2.3m <sup>2</sup>	1 bucket	n/a
10mm	0.7m <sup>2</sup>	2 buckets	n/a
15mm	0.46m <sup>2</sup>	3 buckets	n/a
50mm filled mix	0.22m <sup>2</sup>	5 buckets and 3 x aggregate	

## SURFACE PREPARATION

Floor surfaces must be suitably prepared: sound and free from contaminants that may prevent adhesion. Use STYCCOCLEAN C140 for removing grease, oil, polish, soap etc. from non-absorbent substrates.

Concrete and sand/cement screeds must be fully cured and any laitance or surface treatments must be removed. The temperature of the floor must be maintained above 5°C throughout the application and drying of the mortar. If used in internal floor repairs, where present, underfloor heating must be off for at least 48 hours before, during and after application.

For detailed information, request the **F. Ball Subfloor Preparation Guide**.

## PRIMING

The prepared substrate should be pre-soaked with water, preferably 30 minutes before applying STOPGAP 460. The surface must be damp, but without standing water. For areas subject to heavy traffic, apply a bonding layer by mixing STOPGAP 460 to a wet consistency and apply to the pre-soaked surface. Apply mortar wet on wet.

## MIXING

Mix only a quantity that can be applied before the product thickens (approximately 15 - 20 minutes at 20°C). If a mix should thicken before it has all been applied it should be discarded, extra water should not be added.

**Standard mix:** Mix in the proportion of 3 - 4 parts by volume of powder to 1 part water. Pour the water into a suitably sized bucket then gradually add the powder, whilst stirring, until a smooth, lump free consistency is achieved.

We would not recommend the use of a standard mix above 20mm.

Filled mix: Add STOPGAP graded aggregate to the standard mix at the rate of 1 part by weight of graded aggregate to 1 part of powder.

For increased economy and small localised repairs over 20mm and not exceeding 50mm, the filled mix should be used.

Mixing is best achieved by the use of a STOPGAP power whisk fitted in an electric drill.

## WATER ADDITION

If mixing a full bucket, do not exceed 2.8 litres of water.

## APPLICATION

Trowel the mix onto the subfloor and spread to the required thickness ensuring good compaction to the existing profile at time of placing. For increased economy, with applications of more than 10mm, the filled mix can be used. If required the finish of the mortar can be improved by the use of a wet smoothing trowel or damp sponge before the mortar has fully set, typically 15 to 20 minutes at 20°C.

When being applied in external applications, protect the repair area from rain, wind and direct sunshine whilst curing.

## SETTING

The initial set time of the repair compound is approximately 60 minutes at 20°C and it can accept light foot traffic after this time.

Lower temperatures will extend this time i.e. at 10°C set time will be approximately 2 hours.

When STOPGAP 460 is applied beneath STOPGAP 850 or a STOPGAP waterproof surface membrane the mortar should be left for 24 hours before overcoating.

## TOOLS

- Suitable steel smoothing trowel, electric drill and power whisk.
- Wash tools with water immediately after use.

## STORAGE

This product must be stored under cover, in unopened bags clear of the ground in cool dry conditions, protected from frost and excessive draught.

## PACK SIZE

10kg plastic bucket.

## SHELF LIFE

9 months in unopened buckets and stored under good conditions.

## HEALTH & SAFETY

This product is classified. Obtain the relevant Safety Data Sheet and follow the advice given.

Alternatively they can be obtained from the point of purchase or from F. Ball and Co. Ltd. at the address below.

Site conditions vary, to ensure this product is suitable and confirm this data sheet is current, please contact Technical Service Department.

**FOR FURTHER INFORMATION ABOUT F. BALL PRODUCTS OR MORE DETAILED TECHNICAL ASSISTANCE, VISIT F-BALL.COM OR CALL +44 (0)1538 361633**



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