STOPGAP 850 *EXTERIOR*

Exterior Floor Smoothing Compound

Classification : Class R2 to BS EN 1504-3:2005

PRODUCT DATA

INTRODUCTION

STOPGAP 850 is a non structural exterior grade smoothing compound for use in light to medium duty applications to smooth and level rough or mechanically damaged concrete or sand / cement screeds.

STOPGAP 850 is ideally suited for smoothing areas such as balconies, patios, garages and walkways and is unaffected by rain or frost when set and dried. It is also suitable for smoothing subfloors prior to the application of a suitable non-slip coating or external covering such as artificial grass.

STOPGAP 850 is also suitable for internal application over damp, uneven concrete and sand/cement screeds, prior to application of STOPGAP Waterproof Surface Membranes and STOPGAP ISOLATOR MEMBRANE.

STOPGAP 850 can be left as a stand-alone exterior wearing surface. To give a more natural surface finish and to reduce the potential for slip, if left uncovered, it is recommended that a scratch coat is applied to the surface and brush finished to a textured profile.

STOPGAP 850 can also be pump applied up to 900m² per day, dependent upon manpower, thickness applied and equipment used.

COVERAGE

A 25kg bag of STOPGAP 850 mixed with 4.25 litres of clean water will cover approximately 3m² at a thickness of 5mm.

TECHNICAL INFORMATION

Classification to BS EN 1504-3		Class R2
Working time @ 20°C		10 – 15 minutes
Walk on hardness time @ 20°C		2 hours
Compressive strength N/mm² (EN 12190)	28 days	> 25 N/mm²
Flexural strength N/mm² (EN 196-1)	28 days	> 6 N/mm²
Density (EN 12190)		1900 kg/m³
Chloride ion content (EN 1015-17)		≤ 0.05%
Adhesive bond (EN 1542)		≥ 0.8 N/mm²
Restrained shrinkage/ expansion (EN 12617-4)		≥ 0.8 N/mm²
Skid resistance (EN 13036-4)	Uncoated	Class II > 40 units dry
	Scratch coat	Class III > 55 units wet
Capillary absorption (EN 13057)		≤ 0.5 kg/m².h$^{-0.5}$
Abrasion resistance (EN 13892-4)		AR 1.0
Flow properties using 30mm ø x 50mm flow ring (BS EN 12706)		100 - 120mm
Consumption per mm thickness		1.72 kg/ m²
Application thickness:	Unfilled Filled (for repair)	5 – 15mm Up to 50mm

FEATURES

- Suitable for exterior use
- Suitable for use under STOPGAP Waterproof Surface Membranes and STOPGAP Isolator Membrane
- Protein free
- Water mix
- Application thickness from 5-15mm
- Can be filled up to 50mm
- Can be laid to falls

BS EN1504-3: 2005

When used as a non-structural repair PCC mortar for the repair principles 3 (CR) and 7 (PR), repair methods 3.1 and 7.2, STOPGAP 850 is in conformity with the relevant type requirements of BS EN 1504-3 2005.

PACKAGES

25 kg lined paper sacks.

HOW MUCH MATERIAL?

APPLIED THICKNESS	COVERAGE PER UNIT	CONSUMPTION PER 100m² AREA	GRADED AGGREGATE
5mm	2.90m²	35 units	n/a
10mm	1.45m²	69 units	n/a
50mm filled mix	0.40m²	263 x powder and 132 x aggregate	
Scratch Coat	15m²	7 units	n/a

Note: Coverage rates for 5-15mm are based on 4.25 litres water addition and up to 50mm based on 4.0 litres water addition. These figures will vary according to the condition of the subfloor.

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SURFACE PREPARATION

Exterior floor surfaces must be mechanically prepared: sound, surface dry (no standing water) and free from contaminants that may prevent adhesion.

Concrete and sand/cement screeds must be fully cured, any laitance or surface treatments must be removed and free from any loose material. The temperature of the floor must be maintained above 10°C throughout the application and drying of the compound. Ensure that all joints subject to movement, i.e. expansion and isolation joints, are carried up through STOPGAP 850 and filled with a suitable joint sealant.

Holes or large depressions up to 50mm in depth should be repaired using STOPGAP 850 filled mix – see below. Once the material has sufficiently set, overcoating with STOPGAP 850 standard mix can proceed following priming as described below.

For detailed information, request our Subfloor Preparation Guide.

PRIMING

Absorbent surfaces – Concrete and sand/cement screeds must be primed with STOPGAP P131 diluted 1:7 with water.

MIXING

Standard Mix: Add 4.25 litres of clean water into a STOPGAP mixing bucket and gradually add all the powder whilst stirring with a power whisk fitted in an electric drill until a smooth creamy lump free consistency is achieved. The material should be mixed for a minimum of 3 minutes.

Filled mix (15 - 50mm): Add 12.5kg of STOPGAP GRADED AGGREGATE to the prepared standard mix. For thicknesses between 50mm to 150mm, add 25kg of STOPGAP GRADED AGGREGATE to the prepared standard mix. It is advisable to reduce the level of water by 0.25 litres to prevent separation of the mix.

PUMP APPLICATION

Mix in accordance with the pump manufacturers recommendations and adjust the rate of water flow until the mix is a smooth fluid, uniform grey liquid with no surface separation. Flow checks should be carried out at regular intervals during pumping.

APPLICATION

Pour the mixed material onto the prepared subfloor and allow to flow and attain a smooth finish. Minimal work with a smoothing trowel is required. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines to give a more uniform surface appearance. The mixed material should be applied at a thickness between 5mm to 15mm. For best results, an overall thickness of at least 5mm should be maintained when used as an exterior resurfacing compound.

STOPGAP 850 can also be applied to slight gradients. To ensure the consistency is suitable and reduce the flow properties, we recommend reducing the water content to 4.0 litres to produce a stiffer consistency. Further reductions can be made if required e.g. at increased thicknesses, but we would recommend no lower than 3.75 litres of water per 25kg unit.

STOPGAP 850 is self-smoothing, but should any imperfections remain they can be removed by rubbing with a carborundum stone when the compound will accept foot traffic - typically 2 hours after application at 20°C. This time will be extended with reduced temperature i.e. approximately 4 hours at 10°C.

SCRATCH COAT

To achieve a scratch coat, mix 25kg of STOPGAP 850 with 4.25 litres of water and apply to freshly set material. Pour the material onto the surface and spread thinly using a steel trowel across the surface to leave a textured appearance. Alternatively a broom finish can be used if required.

DRYING

Drying is dependent on the absorbency of the subfloor, ambient temperature and humidity. Where a floorcovering is being bonded onto the subfloor, at a nominal 5mm thickness, STOPGAP 850 will be ready to receive most floorcoverings or coatings after 24 hours. The temperature conditions below should be used as an outline for application/trafficking.

TEMPERATURE	FOOT TRAFFIC	FLOORCOVERING	LIGHT TRAFFIC	MEDIUM TRAFFIC
25°C	90 minutes	24 hours	24 hours	2 days
20°C	2 hours	24 hours	24 hours	2 days
15°C	3 hours	24 hours	24 hours	2 days
10°C	4 hours	2 days	2 days	3 days

PRECAUTIONS

The applied material should be protected from sun whilst applying and drying – if necessary, temporary shading / protection should be considered.
Do not apply in excessively windy conditions as this can affect the surface drying and the finished appearance. Ensure the surface cannot be contaminated from loose debris – e.g. leaves, litter etc. as this can dry into the surface of the material.
Do not apply in rain or when rain is forecast or in frosty conditions – if necessary, temporary protection should be installed. Protect from frost while the material is drying.
New concrete should be allowed to cure for 28 days before the application of STOPGAP 850.
This product is not suitable for application to tarmac or asphalt subfloors.
For other subfloors, contact Technical Service Department for specific guidance.

TOOLS

Suitable steel smoothing trowel, spiked roller, mixing bucket, 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. When stored correctly, as above, and used within 6 months of the date shown on the packaging, the activity of the reducing agent added will be maintained and this product will contain, when mixed, no more than 0.0002% (2ppm) soluble chromium (VI) of the total dry weight of the cement.

SHELF LIFE

6 months in unopened bags and stored under good conditions.

HEALTH & SAFETY ADVICE

This product is classified. Obtain the relevant Material Safety Data Sheet and follow the advice given. These can be found at www.f-ball.com alternatively 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, please contact:

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