



STOPGAP 300 HD

Heavy-Duty Floor Smoothing Underlayment

Screed classification: CT-C35-F7 to BS EN13813:2002

PRODUCT DATA

INTRODUCTION

STOPGAP 300 is a fast drying self-levelling smoothing underlayment suitable for use in light to heavy-duty areas for preparing sound absorbent and non-absorbent subfloors prior to the installation of new floorcoverings.

STOPGAP 300 is dimensionally stable and is supplied as a pre-blended dry powder designed for application between 2 - 20mm. It is protein-free which allows it to be used in biologically sensitive areas such as hospitals.

STOPGAP 300 is suitable for use over a wide range of subfloor types including sand/cement screed, concrete, synthetic anhydrite, minimal adhesive residues, sound asphalt, granolithic, terrazzo, epoxy and polyurethane resins, ceramic and quarry tiles and STOPGAP waterproof surface membranes.

STOPGAP 300 can be pump applied up to 1500m² per day, dependent upon manpower, thickness applied and equipment used.

STOPGAP 300 is not designed as a wearing surface.

COVERAGE

A 25kg bag of STOPGAP 300 mixed with 5.5 litres of clean water will cover approximately 5.1m² at a thickness of 3mm.

TECHNICAL INFORMATION

BS EN 13813 Class	CT-C35-F7
Working Time @ 20°C	20-30 minutes
Walk on hardness time @ 20°C	90 minutes
At 3mm thickness ready to receive floorcoverings over all: (Temperature dependent)	6 hours 12 hours
	Absorbent surfaces Non-absorbent surfaces
Compressive Strength N/mm ² (BS EN13892-2)	1 Day >20.0 7 Days >25.0 28 Days >35.0
Flexural Strength N/mm ² (BS EN13892-2)	1 Day >3.0 7 Days >5.0 28 Days >8.0
Flow properties using 30mm Ø x 50mm flow ring (BS EN 12706)	120-140 mm
Consumption per mm thickness	1.64 m ² /kg
Application thickness:	Unfilled 2-15 mm Filled upto 20 mm



FEATURES

- Fast drying
- Excellent self-levelling properties
- Protein free
- Application thickness from 2-20mm
- Water mix
- Suitable for hand or pump application
- Low odour

BS EN13813:2002

The above standard refers to the properties and performance of the product and the specification to which it has been tested. The data shown confirms the minimum compressive and flexural strengths that the product will achieve.

MATERIALS

25kg lined paper sacks.

HOW MUCH MATERIAL?

APPLIED THICKNESS	COVERAGE PER UNIT	CONSUMPTION PER 100m ² AREA	GRADED AGGREGATE
3mm	5.1m ²	20 bags	n/a
5mm	3.1m ²	33 bags	n/a
10mm	1.5m ²	67 bags	n/a
15mm filled mix	1.3m ²	76 x powder and 38 x aggregate	

N.B. Coverage rates are based on 5.5 litre water addition and will vary according to the condition of the subfloor.

SURFACE PREPARATION

Floor surfaces must be suitably prepared: sound, dry (<75%RH) 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 underlayment. Underfloor heating must be off for at least 48 hours before and after application.

For detailed information, request our Subfloor Preparation Guide.

PRIMING

IT IS ESSENTIAL TO PRIME ALL SURFACES.

Absorbent surfaces - Prime with dilute STOPGAP P131 to prevent rapid drying of the underlayment.

For dry (<75% RH) and suitably prepared anhydrite screeds use neat STOPGAP P121.

Non-absorbent surfaces – such as sound asphalt, minimal adhesive residues, terrazzo, quarry tiles and STOPGAP waterproof surface membranes should be primed with neat STOPGAP P131 to ensure that good adhesion is obtained between the underlayment and substrate.

Primers should be used in accordance with instructions printed on the bottle and must be allowed to dry before applying the smoothing underlayment.

MIXING

Standard mix: Add 5.5 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 2 minutes.

Filled mix: Add 12.5kg of STOPGAP GRADED AGGREGATE to the prepared standard mix. It is advisable to reduce the level of water to prevent separation of the mix.

Water addition

5.25 litres minimum - 5.75 litres maximum per 25kg depending on consistency and flow properties required. Do not exceed 5.75 litres of water per 25kg bag.

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 2mm to 15mm, but can be taken down to feathered edge if required. For best results, an overall thickness of at least 3mm should be maintained.

STOPGAP 300 is self-smoothing, but should any imperfections remain they can be removed by rubbing with a carborundum stone when the underlayment will accept foot traffic - typically 1 1/2 hours after application at 20°C. This time will be extended with reduced temperatures i.e. approximately 3 hours at 10°C.

DRYING

Drying is dependent on the absorbency of the subfloor, ambient temperature and humidity.

On absorbent surfaces, at a nominal 3mm thickness, the compound will be ready to receive resilient floorcoverings after 6 hours.

For greater thicknesses and for application onto non-absorbent surfaces, we would recommend that resilient floorcoverings are installed after 12 hours.

TOOLS

Suitable steel smoothing trowel, spiked roller, mixing bucket, electric drill and power whisk or suitable pumping equipment.

CLEANING

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. Dampness will reduce the shelf life and may cause the powder to set in the sack.

SHELF LIFE

6 months in unopened bags and stored under good conditions.

HEALTH & SAFETY ADVICE

This product is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Obtain the relevant Material Safety Data Sheet and follow the advice given. These can be found at www.f-ball.co.uk 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 Services Department.

For further information about F. Ball products or more detailed technical assistance, please contact:



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SAFETY DATA SHEET CEMENTITIOUS POWDERS TYPE B

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	CEMENTITIOUS POWDERS TYPE B
INTERNAL ID	CEMPOWDERB/10
SYNONYMS, TRADE NAMES	STOPGAP 100, STOPGAP 200 POWDER, STOPGAP 300, STOPGAP 400, STOPGAP 500 MICROCOAT, STOPGAP 600, STOPGAP 700, STOPGAP 800
APPLICATION	Cementitious flooring product.
SUPPLIER	F.Ball and Co.Ltd., Churnetside Business Park, Station Road., Cheddleton, Staffordshire ST13 7RS For technical and non-emergency call: phone: 01538 361633. For advice on medical emergencies, fires, spillages or chemical hazards phone: +44(0) 870 190 6777 Fax: 01538 361622 E-Mail: mail@f-ball.co.uk

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CALCIUM ALUMINATES	266-045-5	65997-16-2	10-40%	Xi;R41.
CEMENT		65997-15-1	0-5%	Xi;R41.

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The product is a blend of cements and inorganic aggregates or fillers and may contain calcium carbonate, pulverised fuel ash, ground granulated blast furnace slag and small percentages of additives. The product may contain a low level of respirable crystalline silica.

3 HAZARDS IDENTIFICATION

Risk of serious damage to eyes.

CLASSIFICATION Xi;R41.

ENVIRONMENT

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

HUMAN HEALTH

Prolonged contact with wet cement/mixture may cause burns. When mixed with water or gauging liquid splashes may cause serious eye damage. The product contains less than 2ppm soluble Chromium VI as a percentage of the cement content. Persons with a known sensitivity to Chromium VI would be advised not to use this product.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Get medical attention if any discomfort continues.

SKIN CONTACT

Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues.

EYE CONTACT

Immediately rinse with water. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

CEMENTITIOUS POWDERS TYPE B**EXTINGUISHING MEDIA**

The product is non-combustible.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Avoid inhalation of dust. Avoid contact with skin and eyes.

SPILL CLEAN UP METHODS

Avoid dust formation. Preferably remove spillage with a vacuum cleaner. Collect spillage in containers, seal securely and deliver for disposal as hazardous waste.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid handling which leads to dust formation. Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product.

STORAGE PRECAUTIONS

Store in closed original container in a dry place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
CALCIUM ALUMINATES	WEL		10 total dust; 4 respirable dust mg/m3		
CEMENT	WEL		10 total dust ; 4 respirable dust mg/m3		

INGREDIENT COMMENTS

The product may contain a low level of respirable crystalline silica (WEL 0.3 mg/m3; 8 hours TWA).

ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of dust.

RESPIRATORY EQUIPMENT

Wear respirator if there is dust formation. A half mask dust respirator approved to EN 149 : 2001 FFP2 is recommended. Ensure that the mask fits tightly to ensure an efficient seal.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. Break through times can vary depending on thickness, use and source. Change gloves regularly.

EYE PROTECTION

If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES

Promptly remove any clothing that becomes wet or contaminated. Wash promptly if skin becomes contaminated.

PERSONAL PROTECTION

Always check applicability with your supplier of protective equipment.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust		
COLOUR	Grey		
ODOUR	Slight odour		
RELATIVE DENSITY	Variable, depends on packing effects	pH-VALUE, CONC. SOLUTION	High alkaline pH when mixed with water.
FLASH POINT (°C)	Not Relevant		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CEMENTITIOUS POWDERS TYPE B**11 TOXICOLOGICAL INFORMATION****INHALATION**

Dust in high concentrations may irritate the respiratory system. The product may contain a small percentage of respirable crystalline silica. Prolonged exposure to dust may result in long term irreversible effects

INGESTION

Ingestion of small amounts is unlikely to cause a significant reaction. Larger doses may result in irritation to the gastro intestinal tract.

SKIN CONTACT

Prolonged or repeated contact with the powder or mixtures with water may cause burns and/or irritant contact dermatitis

EYE CONTACT

Risk of serious damage to eyes.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Small quantities may be mixed with water, allowed to cure fully and disposed of as low hazard waste. Larger quantities should be disposed of as hazardous waste via a licensed waste operator.

WASTE CLASS

Hazardous Waste Code for Powder : 160303*

14 TRANSPORT INFORMATION**GENERAL**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ADR CLASS

Not classified for transportation. MARINE POLLUTANT No.

15 REGULATORY INFORMATION**LABELLING**

Irritant

RISK PHRASES

R41 Risk of serious damage to eyes.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28 After contact with skin, wash immediately with plenty of water.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S60 This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION**GENERAL INFORMATION**

F.Ball and Company Ltd Technical Datasheet.

INFORMATION SOURCES

Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits. Respirable crystalline silica is subject to a Chemicals Hazard Alert Notice (CHAN) Number 35. Text can be found at <http://www.hse.gov.uk/pubns/chan35.htm>.

REVISION COMMENTS

Addition of new product(s) covered by this sheet

REVISION DATE

14/08/06

CEMENTITIOUS POWDERS TYPE B

REV. NO./REPL. SDS GENERATED 10

RISK PHRASES IN FULL

R41 Risk of serious damage to eyes.