



# Cementone Freeflo

**RETARDER, WATERPROOFER & PLASTICISER FOR MORTAR MIXES**

Date: 23 January 2018

Fact Sheet No.: TDS00082

## YOUR SMART ADVANTAGES

- Slows setting time of mortar – ideal for large areas
- Reduces water penetration of mortar
- Makes mortar easier to work

## USES

Bostik Freeflo (formerly known as Cementone Freeflo) is a pigmented, thixotropic, viscous liquid admixture which waterproofs, retards and plasticises cement-based mixes by air entrainment. Bostik Freeflo is an alkaline soap of mixed fatty acids and is chloride-free. Bostik Freeflo provides protection against driving rain and damp conditions and prolongs the mix setting time to allow larger areas to be worked in a single application. It also improves the workability of the mortar.

Bostik Freeflo has been specifically designed for use in pebble dashing, rendering, roughcast, harling finishes and general above ground waterproofing work.

## PRODUCT CHARACTERISTICS

Colour	Orange
Form	Viscous liquid
Specific Gravity	1.02 approx.
Composition	Mixed fatty acids and Sodium Hydroxide (less than 2%)
Product Code	30812469 5 Litres x 4 30812468 25 Litre
Storage/Shelf Life	Store and transport securely in an upright position. Ensure the cap is fully closed. Store for up to 15 months from date of manufacture in original,

unopened packaging under cool, dry conditions within the temperature range of +5°C to +25°C and out of direct sunlight. Protect from frost.

## TYPICAL PERFORMANCE DATA (Approx.)

Mix Ratio 1 part Bostik Freeflo to 30 parts water by volume

## DIRECTIONS FOR USE

**IMPORTANT:** Before using Bostik Freeflo refer to the relevant Health & Safety Data Sheet, available at [www.bostik.com/uk](http://www.bostik.com/uk).

## PREPARATION

Bostik Freeflo has been designed to work with Portland cement: CEM I and Portland-fly ash cement: CEM II/B-V. For other types of cement e.g. Portland-limestone CEM II / A-LL it is recommended that a small trial is carried out to ascertain the optimum mix ratios as these cement types and sand can vary.

**IMPORTANT:** Do not use in concrete which is structural i.e. load bearing, reinforced, pre-stressed or steam cured. Work should not be carried out at temperatures below +5°C or when temperatures are expected to fall below this. Ensure materials and procedures comply with the appropriate British Standards. Do not exceed ratios stated. Do not overmix. When rendering protect render from drying too quickly. Do not use with other admixtures. Do not add to lime based mixes. Do not use with high alumina, sulphate resisting or extra rapid hardening cement. This product is not vapour proof, therefore structures must incorporate a suitable damp-proof membrane. Not suitable for floor screeds. Ensure the substrate is strong enough to support the weight of any render being applied.

1. When choosing mix designs, attention should be paid to the background material, exposure conditions and the finish required.
2. Thorough preparation of the substrate is essential.

3. The render mix design for each successive coat should be weaker and thinner than the coat to which it is applied.
4. The renderings must be prevented from rapid drying during hot and windy weather conditions by covering with polythene sheeting or mist spraying with water for the first 48 hours.

#### APPLICATION

5. Shake well before use.
6. Bostik Freeflo should be mixed with the gauging water in the proportion of one part Bostik Freeflo to 30 parts of water in accordance with the mix design for site requirements.
7. To gain maximum waterproofing properties from Bostik Freeflo, reduce the water content of the mix accordingly.
8. See Table 1 for mix designs, dosage rates and coverage.
9. See Table 2 for mixes suitable in relation to background strength, exposure conditions and the finish required.
10. Consult BS EN 13914-1:2016 Design, Preparation and Application of External Rendering for recommended specifications.

#### CLEANING

11. Clean tools and equipment immediately after use with water.

#### PRECAUTIONS IN USE

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For any application not covered please contact Technical Services on +44 (0)1785 272625 or visit [www.bostik.com/uk](http://www.bostik.com/uk) for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see Health and Safety Data Sheet for Bostik Freeflo, available at [www.bostik.com/uk](http://www.bostik.com/uk).

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



The tables below are for guidance purposes only and should not constitute a specification:

**Table 1 Rendering mixes**

Mix Type	Cement:Lime:Sand	Cement:Sand + Gauging Water (Freeflo:Water)	Approx. Yield/100kg of Cement
1	1 : ¼ : 3		
2	1 : ½ : 4 or 4 ½	1:3 or 4 (1:20 or 1:25)	0.32m <sup>2</sup>
3	1 : 1 : 5 or 6	1:5 or 6 (1:30 or 1:35)	0.48m <sup>2</sup>
4	1 : 2 : 8 or 9	1:7 (1:40)	0.64m <sup>2</sup>

**Table 2 Recommended mixes for external renders in relation to substrate strength, exposure conditions and finish required**

Finish Type	Substrate Type	Mix Designs (See Table 1) Exposure Conditions		
		Severe	Moderate	Sheltered
Wood float, scraped or textured finishes: first and subsequent undercoats	Dense, strong & smooth	2	2	2
	Moderately strong & porous	3	3	3
	Moderately weak & porous	3	4	4
	No fines concrete	2	3	3
	Metal lathing	2	2	2
Wood float, scraped or textured finishes: final finish coats	Dense, strong & smooth	3	3	3
	Moderately strong & porous	3	4	4
	Moderately weak & porous	3	4	4
	No fines concrete	3	4	4
	Metal lathing	3	3	3
*Roughcast & dry-dash; first subsequent and finish coats	For dense, smooth, strong substrates, on no fines concrete and on metal lathing only	2	2	2

\*Not suitable over weak or porous substrates or no fines concrete with lightweight aggregates.

**CONSTRUCTION PRODUCT REGULATION  
DECLARATION OF PERFORMANCE**

**No: TDS00082**

Product Description: **Bostik Freeflo**  
Product Code: **5011734001367, 5011734001374**  
Intended Use: **For Use as an Air Entraining/Plasticising  
Admixture for Masonry Mortar**  
Manufacturer: **Bostik Ltd**  
Contact Address: **Ulverscroft Road  
Leicester  
LE4 6BW**  
System of Assessment: **System 2+**  
Harmonised Standard: **EN934-3: 2009 + A1:2012**

**BSi 0086 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued the certificate of conformity of the factory production control.**

Declared Performance:

Essential Characteristics	Performance	Harmonised technical specification
Chloride ion content	<0.1% by mass	<b>EN934-3: 2009 + A1:2012</b>
Alkali content	1.3% by mass	
Corrosion behaviour	<b>NPD</b> <b>Contains components only from EN934-1:2008 Annex A.1</b>	

The performance of the product Bostik Freeflo 5011734001367, 5000403110424 is in conformity with the declared performance shown in the table above.

This declaration of performance is issued under the sole responsibility of Bostik Ltd.

**Signed for and on behalf of Bostik Ltd by:**

**Name:** Alison Jamieson

**Function:** S.H.E.Q. Manager

**Signature:** 

**Date:** June 2013

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