

Entrainit

POWDERED MORTAR PLASTICISER FOR SMOOTH, EASY TO WORK MORTAR

TECHNICAL SHEET NO: TDS00190 29/10/2024

SMART ADVANTAGES

- Improves workability and durability of mortar
- Minimises cracking and crazing
- Ready to use sachets

DESCRIPTION

Bostik Entrainit Powdered Mortar Plasticiser is a powdered mortar plasticiser and air-entraining agent which improves the workability of the mortar, its durability and frost protection without the addition of lime.

Bostik Entrainit Powdered Mortar Plasticiser is suitable for use in mortars for bricklaying, blockwork, rendering and pointing.

Bostik Entrainit Powdered Mortar Plasticiser is a soluble organic sulphonate formulated to plasticise mortar mixes by entraining microscopic air bubbles. These air bubbles improve the workability of mortars and the frost resistance during laying, and once cured. This is because the air bubbles give space for water to expand in freezing conditions.

It is particularly effective with well-graded sharp sands as these produce the best mortars but are difficult to work. Mortars containing Bostik Entrainit Powdered Mortar Plasticiser spread easily and hang well, reducing droppings. They also retain water to help produce a better bond and provide durable, watertight joints. Bostik Entrainit Powdered Mortar Plasticiser is economical, helping to reduce wastage.

Bostik Entrainit Powdered Mortar Plasticiser is available in either a free-flowing powder, or in pre-weighed sachets. It is chloride-free, so will not corrode reinforcing metalwork, but is not suitable for use in structural concrete. It complies with BS EN 934-3.



TECHNICAL CHARACTERISTICS		
Colour	Yellow	
Form	Powder	
Specific gravity	0.38 approx.	
Composition	Soluble organic sulphonate	
Application temperature	+5°C to +25°C	

COVERAGE

- Normal mortars: 1 sachet/scoop per 50kg of cement
- Where coarse sand is used, rendering or plastering: 2 sachets/scoops per 50kg of cement (see mix ratio section)

APPLICATION

IMPORTANT: Before using Bostik Entrainit Powdered Mortar Plasticiser, refer to the relevant Health & Safety Data Sheet, available at www.bostik.com/uk.

PREPARATION

- This product 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 cement and sand types 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 in temperatures below +5°C, or when temperatures are expected to fall below this within 24 hours after application. Ensure materials and procedures comply with the appropriate standards. Do not exceed ratios stated, overmix, use with other admixtures, add to lime-based mixes, or use with high alumina, sulphate resisting or extra rapid hardening cement. Not suitable for floor screeds. When rendering, protect render from drying too quickly. Ensure the substrate is strong enough to support the weight of any render being applied.
- Ensure sand for mortar complies with the appropriate standards and that work is carried out in accordance with BS EN 1996 parts 1 & 2 and PD 6697 : 2019. Always use fresh cement. Ensure that all components of the mix are above +5°C. Sands and aggregate should be dry for best results.

MIX RATIO

Application	Mix design
Strong clay brick (engineering) laying, external rendering, splatterdash, pebbledash, roughcast, strong undercoat and pointing	3 : 1 coarse sand/cement + Bostik Entrainit Powdered Mortar Plasticiser
Normal strength bricklaying, general undercoat and finishing coat (for internal/external renders)	6 : 1 sand/cement + Bostik Entrainit Powdered Mortar Plasticiser
Laying lightweight blocks	8 : 1 sand/cement + Bostik Entrainit Powdered Mortar Plasticiser
Gypsum undercoat	2 : 1 sand/gypsum + Bostik Entrainit Powdered Mortar Plasticiser

APPLICATION

Machine mixing:

- Add the contents of sachet/scoop directly into the mixer at any stage, at the rate of 1 sachet or scoop per 50kg of cement, depending on the mix requirements.
- Bostik Entrainit reduces the amount of water required. Adjust to achieve desired consistency.
- Switch off during rest periods to avoid excessive air entrainment.

Hand mixing:

• Dry mix the sand and cement and ring out.

- Pour water into ring.
- Sprinkle Bostik Entrainit onto the water, depending on mix requirements.
- Stir with shovel, then mix normally.
- Turn mortar over well as it comes to the wet state.
- Do not use with other admixtures except Bostik Colours for Cement.

Bricklaying:

· Select mortar on basis of site requirements.

Renderings and plasters:

- Select mortar to suit background, exposure and finish required.
- The mix design for each successive coat should be weaker and thinner than the coat it is applied to.

CLEANING

• Clean tools and equipment with water immediately after use.

STORAGE

• Store and transport securely in an upright position. Ensure the lid is secure. Store for up to 2 years from date of manufacture in original, unopened packaging in cool, dry conditions within the temperature range +5°C to +25°C and out of direct sunlight. Protect from frost.

PRECAUTIONS IN USE

For any application not covered, please contact Technical Services on +44 (0)1785 272625 or visit 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 separate Health and Safety Data sheet for Bostik Entrainit Powdered Mortar Plasticiser, available at www.bostik.com/uk.

PACKAGING		
Product codes	30614139	3kg bucket
	30812486	5.25kg bucket (250 sachets)

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