
EVO-STIK MORTAR PLASTICISER

INTRODUCTION

EVO-STIK Mortar Plasticiser is a ready to use liquid admixture, containing air entrapping agents, the effect of which is to plasticise a mix and thus provide a satisfactory fatty mortar for laying bricks and blocks without the use of lime. An important feature is its ability to impart resistance to the effects of freezing.

The improvements made possible in a mortar mix by EVO-STIK Mortar Plasticiser result from the action of this admixture in reducing the surface tension of the gauging water enabling minute air bubbles to be uniformly entrained throughout the mix. The entrained air gives the same bulking value as the lime it replaces so that there is no volume loss in the mortar.

The improvement in workability results from the action of the entrained air in greatly reducing the internal friction within the mix between cement and sand particles.

The resistance to the effects of freezing of the unset mortar is due to the ability of the air bubbles to take up expansion of the water when it turns to ice in the mortar. The expansion would cause disintegration of non-air entrained mortar mixes. In cured mortar, the presence of air bubbles and an improved waterproofing quality helps to resist the disruptive pressure of ice formation.

The improvement in water proofing quality is brought about by a break up in continuity of capillary channels by minute air bubbles and by the reduction in quantity of gauging water effected by the use of EVO-STIK Mortar Plasticiser.

Evo-Stik Mortar Plasticiser conforms to EN 934-3 : 2009

The properties imparted by EVO-STIK Mortar Plasticiser fulfil the following basic requirements for satisfactory fatty mortar:

- It must be easy to work and spread to achieve high efficiency in laying of bricks and blocks
- The mix must remain plastic for a sufficient time to allow adjustment of the bricks but must have a reasonably fast initial set to achieve stability.
- The mix must be economical in use.
- The strength of the mortar must be less than that of the bricks or blocks.

EVO-STIK Mortar Plasticiser is a proven, economical, simple to use means of achieving consistently successful mortar mixes with significant advantages over other methods for improving workability.

This leaflet is for general guidance only and may contain inappropriate information under particular conditions of use.



METHOD OF USE

Shake well before use.

Add Evo-Stik Mortar Plasticiser at the rate of 170 ml - 180 ml per 50 Kg cement depending on the degree of plasticity required.

OR

EVO-STIK Mortar Plasticiser can be added to the gauging water at the rate of 1 litre per approx. 200 litres water.

This is sufficient for gauging approximately 200 Kg of cement to produce rendering or bricklaying mortar.

DO NOT OVERDOSE. DO NOT USE IN LIME-BASED MIXES OR WITH OTHER ADMIXTURES.

The quantity of gauging water, containing EVO-STIK Mortar Plasticiser, to be added to the dry mortar mix will normally be 10-15 per cent less than that of ordinary gauging water but will depend on the condition of the sand and the purpose for which the mortar is intended.

PACKAGING

EVO-STIK Mortar Plasticiser is supplied in 5 litre and 25 litre

USAGE

1 litre to 200 litre of gauging water (approx.).

COMPOSITION

Aqueous solution of modified lignin-based surface-active agents.

HANDLING AND STORAGE PROPERTIES

Non flammable. Non-hazardous under normal conditions of use. Store in a dry place with the range of 5-30°C. Protect from frost.

SERVICES

This Product Data Sheet covers just one of a large range of products from Bostik Industries Limited. Full information and advice on these products is freely available from our Technical Services Department.

This Product Data Sheet supersedes all previous information on this product, all previous data should be destroyed, if in any doubt, contact our Technical Services Department, quoting the number in the top right hand corner of this document.

Application	Sand	Cement	Mortar Plasticiser
<i>Brick Laying</i>	<i>6-8 parts building</i>	<i>1 part</i>	<i>ADDED DIRECT TO MIX 180mls per 50kg cement</i>
<i>Wall Rendering</i>	<i>4-6 parts sharp</i>	<i>1 part</i>	
<i>Bedding</i>	<i>4-6 parts building</i>	<i>1 part</i>	
<i>Pointing</i>	<i>3 parts building</i>	<i>1 part</i>	

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DECLARATION OF PERFORMANCE

No. TDS01817 / 1-CPR/2013

Identification: Evo-Stik E.M.P 370203 /370210
Mortar Plasticiser

Product Code: 50-99414-52023-0 and 50-99414-52022-3

Intended use: For use as an Air entraining / Plasticising Admixture for masonry mortar.

Manufacturer: BOSTIK LIMITED
Ulverscroft Road,
Leicester
LE4 6BW.

System of assessment: System 2+

Harmonised EN Standard: EN934-3:2009 + A1:2012

Notified Body: The notified body No.NB0086 carried out the initial inspection of the plant and process determination of the product type on the basis of type testing on sample s taken by the manufacturer under system 2+

Declaration of performance: EN 13813:202 – CT C 35 : F7

Essential Characteristics	Performance	Harmonised technical specification
Chloride ion content	<0.1% by Mass	EN934-3:2009 + A1:2009
Alkali content	0.02% by Mass	
Corrosion behaviour	NPD Annex A.1 Approved	

Declaration: The performance of the above product is in conformity with the declared performance as defined under EN 934-3:2012 and a shown in the table above. This declaration of performance is issued under the sole responsibility of Bostik Limited

Signed for & behalf of
Bostik Industries Limited

Ruth Walsh
Technical Manager

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