

# MasterAir 130

Air entraining admixture for mortar & concrete – BS EN 934-3: T2 & BS EN 934-2: T5

## Material Description

MasterAir 130 is a liquid air-entraining admixture which produces ultra-stable air bubbles with good bubble size and spacing factor. It is particularly suitable for use in both mortar and concrete applications.

## Areas of Application

Entraining controlled air contents in a wide range of mortar and concrete types:

- Ready-to-use retarded mortar
- Air entrained concrete
- Machine and hand laid pavement quality concrete
- Low slump concrete
- Concrete containing pulverised fly ash (PFA)
- Concrete containing large amounts of fine materials

## Characteristics and Benefits

MasterAir 130 is especially beneficial in the production of retarded ready-to-use mortar; its formulation has been optimised to maintain air contents for up to 72 hours, when used in conjunction with retarders from our range such as MasterSet R 510. MasterAir 130 is especially useful in the types of concrete known for their difficulty to entrain and maintain the desired air content.

Entrainment of the optimum air content in mortar and concrete results in the following improvements to quality:

- Increases open time of mortar
- Improves cohesiveness and bond strength
- Increased freeze/thaw damage resistance
- Improves finish after pointing.
- Reduced permeability
- Reduced segregation and bleeding
- Improved plasticity and workability
- Increased resistance to scaling

## Dosage

There is no standard dosage rate for MasterAir 130 admixture. Trial mixes should determine the exact quantity of air-entraining admixture. Factors to consider are: temperature,

cement content and type, sand grading, sand-aggregate ratio, slump, means of conveying and placement, use of extra fine materials such as fly ash and microsilica.

The amount of MasterAir 130 admixture used will depend upon the amount of entrained air required under actual job conditions. In an initial trial mix, we suggest using 350 ml per 100 kg of cement and adjust in the light of results obtained.

## Compatibility

MasterAir 130 can be used with most types of EN 197 Cements. For use with Pulverised Fuel Ash, or any other special cements, contact our Technical Services Department.

MasterAir 130 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterAir 130 they must be dispensed separately.

MasterAir 130 is compatible with mortar and concrete containing other Master Builders Solutions admixtures or admixture systems – water reducers, high-range water reducers, accelerators, retarders and water repellents. For retarded mortar, it is particularly effective when used in combination with MasterSet R 510.

When such complimentary admixtures are required it is important that laboratory trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant mortar or concrete. In these circumstances we recommend that you consult our Technical Services Department for further advice.

## Packaging

MasterAir 130 is supplied in 1000-litre IBC's and 15-litre containers.

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## Contact Details

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Product Data - General	
Appearance:	Yellow Liquid
Specific gravity @ 20°C:	1.01 ± 0.02 g/cm <sup>3</sup>
pH-value:	10 ± 1
Alkali content (%):	≤ 1.0% by mass
Chloride content (%):	≤ 0.10% by mass
Solids content:	7.0 ± 0.7%
Corrosion behaviour:	Contains only components according to BS EN 934-1:2008, Annex A. I
Dangerous substances:	No Performance Determined
Durability:	No Performance Determined
Product Data - BS EN 934-3: T2 - Mortar	
Air Content after standard mixing:	17.0% ± 3%
Air Content after 1 h standing:	Reference mix, minus a maximum of 3%
Air Content after extended mixing:	Air content at standard mixing ± 5%
Reduction in water requirement for standard consistence:	≥ 8% by mass
Compressive strength - 28 days:	≥ 70% of Reference mix
Product Data - BS EN 934-2: T5 - Concrete	
Compressive strength – 28 day:	≥ 75% of Reference mix
Air content in fresh concrete:	≥ 2.5% by volume of Reference mix and total air content between 4% and 6%
Air void characteristics in hardened concrete:	Spacing factor in test mix ≤ 0.200 mm

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Logistics	
Shelf life:	12 months if stored according to manufacturer's instructions in unopened container.
Storage conditions:	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterAir I 30 Safety Data Sheet
Disposal:	Refer to MasterAir I 30 Safety Data Sheet

## Disclaimer

### MasterAir I 30, Master Builders Solutions UK Ltd, Version 4

#### Health and Safety

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

#### Spillage

Chemical products can cause damage; clean spillage immediately.

#### DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

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Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.