

MICRO-AIR[®]

An air-entraining admixture for concrete

DESCRIPTION

MICRO-AIR is an ultra stable air-entraining admixture for use in all types of concrete. **MICRO-AIR** is particularly recommended for use in concrete in which it has previously been difficult to maintain the desired air content. **MICRO-AIR** is supplied as a ready-to-use aqueous solution, free of added chloride.

RECOMMENDED FOR

- low slump concrete
- flowable concrete
- high temperature concrete
- concrete with extended working times
- lightweight and prestressed concrete
- imparting workability to lean harsh mixes
- reducing bleeding caused by grading deficiencies in the concrete materials

FEATURES AND BENEFITS

The use of **MICRO-AIR** to entrain optimum air content in concrete results in the following improvements in concrete quality:

- **improved plasticity and workability**
- **reduced segregation and bleeding**
- **reduced permeability - increased watertightness**
- **increased durability**
- **increased resistance to freeze/thaw cycles**

In addition **MICRO-AIR** provides:

- **improved ability to entrain and retain air in concrete - improved stability**
- **improved air-void system in hardened concrete**

COMPATABILITY

MICRO-AIR is compatible for use in concrete containing POZZOLITH[®] or other BASF admixtures such as high range water reducers, accelerators, retarders, densifiers and water repellents. However, combinations of admixtures may have a synergistic effect effectively increasing air entrainment and therefore, should always be tested in concrete before use.

When two or more admixtures are used, they must be added to the mix separately (through dispensers or by hand) and must not be mixed with each other prior to adding to the concrete mix.

QUANTITY TO USE

MICRO-AIR 905 is normally used at 40-400mls/100kg cementitious material.

MICRO-AIR 940 is normally used at 10-100mls/100kg cementitious material.

There is no standard dosage rate for **MICRO-AIR**. The exact amount of air entraining admixture needed for a given air content of concrete varies because of differences in concrete-making materials.

The amount of **MICRO-AIR** to use will depend upon the amount of air required under actual job conditions and therefore, should be determined by trial mixes before commencing production.

In mixes containing water reducing or other admixtures, the amount of **MICRO-AIR** needed may be somewhat less than the amount required in plain mixes.

In fly ash mixes, the amount of **MICRO-AIR** needed can be more than double that required in cement only mixes.

HOW TO USE

- **MICRO-AIR** is supplied as a ready-to-use solution. Do not dilute and do not mix directly with any other admixture.
- Add **MICRO-AIR** to the concrete mix either by dispenser designed for air entraining admixtures or by adding manually, using a suitable measuring device.
- Measure the air content of the trial mix and increase or decrease the quantity of **MICRO-AIR** as needed to obtain the desired air content in the production mix. Check the air content of the first production batch and make further adjustments if needed.

PACKAGING

MICRO-AIR is normally supplied in 205 litre drums, 1000 litre pallecons or in bulk.

STORAGE

MICRO-AIR solution should be kept at a uniform temperature (2°C or above) to prevent thickening and forming a precipitate.

SHELF LIFE

Micro Air has a shelf life of approximately 18 months if stored in a sealed container.

PRECAUTIONS

If **Micro Air** admixture has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. **Do not use pressurised air for agitation.**

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF **Material Safety Data Sheet (MSDS)** from our office or our website.



The Chemical Company

MICRO-AIR[®]

AMA/11/0711

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

BASF Australia Ltd

A.B.N. 62008437867

Head Office: 11 Stanton Road Seven Hills, NSW 2147

Ph. (02) 8811 4200

Newcastle (02) 4961 3819

Canberra (02) 6280 6010

Brisbane (07) 3633 9900

Townsville (07) 4774 7344

Melbourne (03) 9549 0300

Adelaide (08) 8139 7500

Perth (08) 9366 2600

Darwin (08) 8984 3269

Kalgoorlie 0417 772 355

BASF New Zealand Ltd

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233

BASF WEB SITES

www.basf-cc.com.au

www.basf-cc.co.nz

www.meyco.basf.com