

MORTAIR[®] D

Mortar Plasticiser/Air Entrainer

Product Description

MORTAIR[®]D is a liquid air entraining agent for use in the production of air entrained mortar. It is normally used in conjunction with MORTARD[®]79/5 Mortar Retarder (see separate data sheet).

MORTAIR[®]D is specifically formulated to allow ease of production of ready-to-use mortars with air contents complying with the limits stated in BS 4721. MORTAIR[®]D yields a constant air content over a wide range of dosages. MORTAIR[®]D gives an extremely stable air system and complies with the requirements of BS 4887: Part 1.

Benefits and Advantages

- MORTAIR[®] D produces a stable air system with minimum air loss throughout the life of the plastic mortar. Production of ready-to use mortars complying with BS 4721 is made easier because of the plateauing of air content and constant air content over a wide range of dosage.
- Due to its dosage tolerance, the levels of entrained air when using MORTAIR[®] D are less susceptible to variation in sand grading and silt content of the sand.
- Mortar containing MORTAIR[®] D has very good site acceptance because of its constant air content, reduced bleeding and predictable workability and life.

Typical Properties

APPEARANCE	DARK BROWN LIQUID
Air Entrainment:	See "Addition Rates"
Chloride Content:	0.2% as per EN480-10
Freezing Point	-3°C

Addition Rates

Range: 100 ml - 500 ml per 100kg cement

The addition rate of MORTAIR[®]D is dependent on the characteristics of the mortar constituents and air entrainment required. Several factors which affect air entrainment are:

- Type and efficiency of mixing equipment
- Water content
- Fine aggregate content, grading and type
- Cement/lime content and type
- Temperature

MORTAIR®D is supplied ready for use. It should be added to mortar mixes during the mixing process, at the same time as the water or the aggregates and not directly onto cement.

With good plant control, very consistent results can be obtained.

It is essential that preliminary plant trials are performed, so that the above criteria can be assessed, before dosage levels are finalised.

For advice and assistance with your trials we would recommend that you consult Grace Construction Products.

Overdosing of MORTAIR®D will result in a modest increase in air content and workability

Compatibility

With cements:

MORTAIR®D can be used with all types of Portland Cement. For use with special cements we recommend that you consult GCP Applied Technologies.

With other admixtures:

MORTAIR®D should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we would recommend that GCP Applied Technologies be consulted in such circumstances.

Dispensing

It is preferable that liquid admixtures for concrete should be introduced into the mixer by means of automatic dispensing equipment. A range of equipment is available, and advice on supply and fitting is available from GCP Applied Technologies on request.

Packaging

MORTAIR®D is supplied in 205-litre , non-returnable containers. Alternatively, bulk deliveries can be arranged.

Storage

MORTAIR®D should be stored above 0 °C and protected from frost. If the product does freeze, it should be thawed out slowly and remixed mechanically prior to use

Health and Safety

See MORTAIR®D Safety Data Sheet or consult GCP Applied Technologies.

Technical Service

The Technical Service department of GCP Applied Technologies is available to assist you in the correct use of our products.

Storage life in manufacturer's drums:

12 months from date of manufacture

Storage life bulk storage:

12 months from date of delivery.

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