

DBM[®] W

Plasticiser for Semi-Dry Mixes

Product Description

DBM[®]W is a liquid permeability reducing admixture for use in all types of mortar and concrete mixes. DBM[®]W has particular applications in the cast stone and block making industries, where high aggregate/ cement ratios are normally used.

Advantages

- DBM[®] W can be added by means of an automatic disperser.
- It can be used with grey or white Portland cement or with pigmented mixes to help prevent unsightly efflorescence and irregular leaching out of pigments.
- Precast units, blocks, bricks and other semi-dry concretes containing this type of permeability reducer, retain their original clean appearance when exposed to the elements for considerable periods.
- The durability of concrete finishes is increase because the penetration of rain and moisture is greatly reduced, giving improved resistance to frost damage.
- Aggregate mottling can be prevented in most mixes.
- The reduction in permeability obtained with DBM[®] W is long lasting.

Typical Properties

DBM [®] W	
Appearance	amber coloured liquid
Specific Gravity	1.04 at 20 °C
Sulphate Content	0.50% as SO ₃
Chloride Content	Nil
Freezing Point	-5 °C

Method of Use

DBM[®]W is supplied ready for use. It should be added to concrete mixes during the mixing process at the same time as the water or the aggregates. It should not be added directly to the cement. No extension of normal mixing time is necessary.

Compatibility with Cements

DBM[®]W can be used with all types of Portland cement including sulphate resisting and cement replacement materials.

Compatibility with other Admixtures

DBM[®]W should not be premixed under any circumstances with other admixtures. While some admixtures can be usefully combined within the same mix the performance of this product may well be affected by the presence of other chemicals and we recommend that GCP Applied Technologies be contacted for advice in all such circumstances.

Addition Rates

Range: 1.0%–2.0% volume by weight of cement

The performance of DBM[®]W is best assessed after preliminary tests on site using the actual mix under consideration. It has been found to be effective in a wide range of concretes, e.g. in open textured blocks containing grey or white cement, various mixes into which a synthetic colour is added and in concrete of normal density.

It is difficult to specify a precise level of addition for optimum results to be achieved because of the range of applications. Furthermore, the degree of reduction in surface permeability required can be achieved by varying the dosage level, which typically lies between 1000 ml–2000 ml DBM[®]W per 100 kg cement.

Effects of Overdosing

Serious overdosing of DBM[®]W will generally produce an increase in workability and cohesion of the mix. In cold weather this may be accompanied by retardation of setting.

Dispensing

It is preferable that liquid admixtures for concrete should be introduced into the mixer by means of automatic dispensing equipment. Details are available upon request.

Health and Safety

For further information see DBM[®]W SDS (Safety Data Sheet) or consult GCP.

Packaging

DBM[®]W is supplied in nominal 210 litre free, non-returnable containers.

Alternatively, 1000 litre IBCs or bulk deliveries can be arranged.

Storage

DBM[®]W should be stored in original containers or suitable closed tanks, preferably out of direct sunlight and protected from extremes of temperature.

Storage life in Manufacturer's Drums:

12 months from the date of manufacture

Storage Life in Bulk Storage:

12 months from the date of delivery

Technical Service

The Technical Service Department of GCP is available to assist you in the correct and best use of our products. These resources and advice are at your disposal entirely without obligation. Please contact:

GCP

Emirates Chemicals LLC

Festival Tower, Suite 1701

Dubai Festival City

P.O. Box 5006

Dubai, United Arab Emirates

Tel: +971 4 2329901

Fax: +971 4 2329940

Email: meinfo@grace.com

gcpat.ae | United Arab Emirates customer service: +971 4 5139560

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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

P. O. Box 5006, Office 2104, 21 Floor, The Exchange Tower, Opp. JW Marriott Marquis Hotel, Business Bay, Dubai – United Arab Emirates

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Last Updated: 2025-05-15

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