

DBM[®] PM1

Plasticiser for Semi-Dry Mixes

Product Description

DBM[®]PM1 is a liquid air entraining plasticiser designed for use in semi-dry concrete, to improve workability and cohesiveness whilst permitting a reduction in the free water cement content. Addition of the material will subsequently permit improvements in compressive strength and surface finish.

DBM[®]PM1 combines the effect of deflocculating materials which aids cohesion, producing optimum response to the intense vibration/compaction cycles found in block, brick, interlocking pavements and tile manufacture. This ensures the cement is more widely and evenly distributed maximizing hydration and strength potential, producing a more uniform texture and smoother cement rich appearance.

DBM[®]PM1 is formulated from carefully controlled materials and is blend of natural and synthetic raw materials, producing a consistent product.

Advantages

- More uniform texture
- Sharper edge detail
- Effective in both air and steam cure conditions
- More uniform colour for pigmented mixes
- Reduces mould box wear
- Smoother, cement rich, denser surface

Typical Properties

DBM [®] PM1	
Appearance	brown liquid
Specific Gravity	1.14 at 20 °C
Chloride Content	Nil

Method of Use

DBM[®]PM1 is supplied ready for use. It should be added to concrete mixes during the mixing process at the same time as the water. It should not be added directly to the cement. No extension of normal mixing time is necessary.

Compatibility with Cements

DBM[®]PM1 can be used with all types of Portland cement including cement replacement materials.

Compatibility with other Admixtures

DBM[®]PM1 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: 0.2%–0.4% volume by weight of cement

The performance of DBM[®]PM1 is best assessed after preliminary tests to determine the optimum dosage level and effect on the properties of the concrete.

As a guide to these trials an addition rate of 200 ml–400 ml DBM[®]PM1 per 100 kg cement is recommended.

Effects of Overdosing

Serious overdosing of DBM[®]PM1 will generally produce an increase in workability and cohesion of the mix. This may be accompanied by retardation of the setting characteristics of the concrete. However, provided the concrete is properly cured, the ultimate strength will generally be higher than that of normal concrete.

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[®]PM1 SDS (Safety Data Sheet) or consult GCP.

Packaging

DBM[®]PM1 is supplied in nominal 210 litre free, non returnable containers.

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

Storage

DBM[®]PM1 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

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