Dichtament DM

Chloride free, Liquid integral waterproofing compound

Product Properties

- Reduction of about 15% of mixing water without altering the workability of the mix
- Does not contain Chlorides
- Makes it possible to control & maintain the W/C ratio as low as possible
- Allows higher dispersion and homogenous concrete
- Makes concrete water tight

Areas of Application

- Used as an admixture for pre-stressed concrete
- As an integral waterproofing admixture for concrete
- Suitable for production of waterproof concrete used in construction of wet rooms, concrete roofs, basements, tunnels, tanks, swimming pools, etc.

Application Notes

General

Dichtament DM is an integral waterproofing admixture for concrete with good plasticizing properties. It does not contain any chloride and can also be used as an admixture for pre-stressed concrete.

The mixing of **Dichtament DM** in the concrete brings about contraction of capillaries thereby rendering the concrete dense and waterproof.

Dichtament DM is suitable for usage in production of waterproof concrete in accordance with DIN 1048 (German Industrial Standard No 1048) and similar relevant standards. It conforms with IS 2645.

Application

Addition of **Dichtament DM** in the concrete mix allows the reduction of about 15% mixing water without altering the workability of the mix. This property of **Dichtament DM** makes it possible to control and maintain the water cement ratios as low as possible, which is of considerable importance in the preparation of watertight concrete.

Dichtament DM brings about contraction of capillary pores and increases density of concrete rendering it optimally watertight.

The addition of **Dichtament DM** in the concrete results in the formation of homogenous and evenly distributed cement binder, which brings about efficient binding of aggregates. The homogenous cement gel prevents the likely settlement of heavy coarse aggregates and checks the phenomenon of bleeding in fresh concrete

The results of the laboratory tests carried out in accordance with DIN 1048C (German Industrial standards No 1048) for the testing of waterproof concretes reveal that the depth of penetration of water was considerably lowered by addition of **Dichtament DM**.

Instructions for Use

Dichtament DM should be mixed with gauging water or can be added to concrete during the process of mixing.

Mixing should be continued for at least one minute after the addition of **Dichtament DM**.

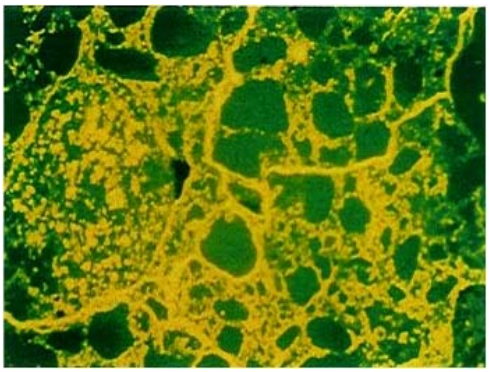
The gauging water should be properly adjusted taking into account the water reduction brought about due to the presence of **Dichtament DM.**

Dichtament DM should be added at a rate of 0.3 to 0.5% of cement weight subject to minimum of 1kg/m^3 of the concrete mix. However, the exact quantity of **Dichtament DM** to be admixed in production of waterproof concrete conforms particular standards is best determined by conducting preliminary site tests.

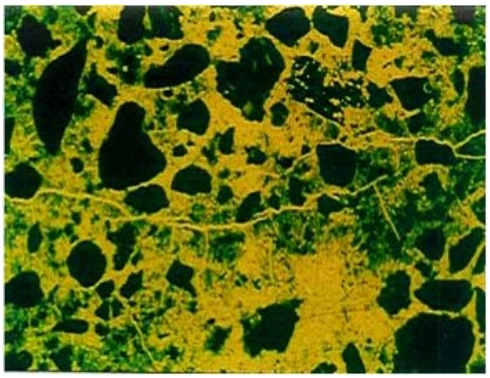
MC-Bauchemie (India) Private Limited, 411, Arenja Corner, Sector-17, Vashi, Navi Mumbai 400703, India
Tel: 022-27892856, 27880803 Fax: 022-27893870 e-mail: info.india@mc-bauchemie.com www.mc-bauchemie.com

Further Instructions / Precautions

Capillarity of Concrete without Use of Dichtament DM



Reduced Capillarity of Concrete with Use of Dichtament DM



Technical Data For Dichtament DM

Characteristic	Unit	Value	Comments
Density	Kg / Litre	1.10	± 0.02
Mixing ratio	% by weight of cement	0.3 to 0.5	Minimum 1kg / m^3 of concrete mix should be used

Product Characteristics for Dichtament DM

Type of Product	Liquid Integral Waterproofing Additive
Form	Liquid
Colour	Brown
Shelf Life	12 Months from date of Manufacture
Delivery	230 kg Barrels, 30 kg containers
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.

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MC-Bauchemie (India) Private Limited, 411, Arenja Corner, Sector-17, Vashi, Navi Mumbai 400703, India
Tel: 022-27892856, 27880803 Fax: 022-27893870 e-mail: info.india@mc-bauchemie.com www.mc-bauchemie.com