

ADMIX GM510

Shrinkage Compensating and Water Reducing Admixture for Concrete

ADMIX GM510 is powder form admixture for concrete to compensate natural shrinkage of concrete. Beside expanding property to control further shrinkage, the product contains plasticizer which helps to produce concrete or other cement-based product with less water cement content, hence increasing mechanical strengths. Major expansion effect appears before setting time, but stabilization property of product helps to prevent shrinkage in later ages.

Applications

ADMIX GM510 can be used for producing grout mortars at job site. It can also be used for production of injection grouts or non-shrink concrete. The product is mainly used wherever shrinkage compensation of cement-based products is the goal, such as bonding new concrete to existed substrate in strengthening of structures, fixing machinery's chassis or duct grouting in post tensioning applications.

Expansion

Full expansion affect occurs during 1 to 2.5 hours after adding the product in cement-based mixes which depends on environmental temperature. The expansion rate is between 2% to 3% in cement-based slurries, this rate is 1% to 1.5% in concrete or sand-cement mortars.

Properties

Appearance	Brown powder
Bulk density	1.4 g/cm ³
Chloride content	Nil
Nitrate content	Nil
Freezing point	NA
Flash point	Not flammable
Dosage	500 g / 100 kg of cement



White Damavand Corporation

4th Floor, No.13, West 35th St.
Alvand Ave., Argentina Sqr.,
Tehran, Iran

Tel: +98 (21) 8867 8880

<http://white-damavand.ir>

info@white-damavand.ir

Application method

Pour measured water to the mixer and add cement while the mixer is rotating continuing mixing till a homogeneous paste be achieved, add **ADMIX GM510** to the cement paste and continue mixing for further 3 minutes, finally add aggregates (if existed in mix design) and mix it for 2 more minutes. Please note that excessive mixing results in less expansion.

Dosages

ADMIX GM510 is dosed in rate of 0.5% of cement content. It is compatible with different types of cements. Overdosing will result in more expansion as well as more fluidity. Please note that water cement ratio in mix designs containing this product should be calculated less than normal mixes and more water content may result is segregation and bleeding.

Packaging

ADMIX GM510 is supplied in 500 g pails and 20 kg PP bags.

Storage

This product should be stored in original packages under cover, out of direct sunlight and be protected from extremes of compaction. Shelf life is 12 months.

Safety awareness

Like other chemical products, **ADMIX GM510** may cause irritation. Use personal safety devices while using this material. In case of any contact or splashing to eyes or skin, wash it with clean water for at least 15 minutes and get medical helps.

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Quality approval

All materials produced in **White Damavand** are under strict control of QC department and meet the requirements of international standards.

Supplementary data

For any additional information, please contact company's specialists.



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