





HM 22

High Range Water Reducer / Superplasticizer Concrete Admixtures

Identification of the Product

HM 22 admixtures are Superplasticizers that are based on Polynaphthalene Sulphonate this product range has high strength properties, additionally increase 7-28 days strengths and gives high slump increase with the same amount of water.

Areas of Usage

In worksites, where leveling problems may be faced, and where necessary performance and economic solutions are required without risk of segregation

In slab and foundation concretes, curtain walls, girders and columns, in bridges, in architectural structures and in RCC concretes

In concrete elements with thin and dense reinforcements

In production of concrete under high temperature weather

For the production of high strength concrete

Standards

TS EN 934-2 +a1 Chart 3.1 and 3.2: High Range Water reducer/Superplasticizer Concrete Admixtures TS EN 934-2 +a1 Chart 11.1 and 11.2: S9et Retarder / High Range Water Reducer / Superplasticizer Concrete Admixtures

Features / Advantages

In comparison to concrete without admixture, depending on the applied dosage, reduces water amount of the mixture 10-25% without risk of segregation.

Provides significant increase in early and final strength depending on the dosage

Increases the durability of the concrete

Gives smoother surface after leveling It does not include Chloride or other

components. Thus, it is more suitable to be used in reinforced concrete constructions. Because of high water reduction, increases the resistance of the concrete against water and frost.

Technical Information

Chemical Content Based on SLS / SNF

1,14 - 1,17 kg/l Density

рН 6,0 - 10,0Color Brown

Total Chlorine Maximum %0,1

Alkali < 5

Package

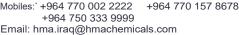
Bulk, 1000 kg tank, 220 kg barrel and 30 kg plastic bags

Factories: First Plant :Baghdad, Tajiat

Second Plant: Baghdad, Al-Obaidi

Third Plant: Sulamani - Kirkuk Road

Mobiles: +964 770 002 2222 +964 750 333 9999









Storing Conditions / Shelf Life

It is proper to use the product in 12-months after the production date when it is stored in original, unopened and non-damaged packages in between +5 °C and +35 °C. It should be avoided from direct sunlight and frost.

If the additive is frosted under +5 °C, it should thawed by waiting at ambient temperature without using direct heating and mixed until it becomes homogeneous. Compressed air should not be used during this operation.

Dosage

Depending on performance expected from the concrete, it is used between %0,8 - 1,4 of the binding material (cement, micro silica, fly ash) amount.

If dosed over 1.4% in winter months, set retarding may be observed

In order to find optimum admixture dosage, it is recommended to make experimental mixtures in the laboratory because of the different water/cement ratio of the cement and aggregate used.

When it is required, HMA Construction Chemicals Technical Support Unit should be Consulted.

Application Method

After mixing binding material (cement, micro silica, fly ash) and aggregate

homogeneously, only 50-60% of the total Water which will be added to the mixture is added. HM 22 admixture is added with the remaining water to the concrete mix.

In order to have the admixture spread homogeneously in the concrete and provide

the required performance, the concrete should be mixed for 2 minutes or the period determined in laboratory tests.

Important Subjects

Admixture dosage and application method should be determined in laboratory experiments The admixture should not be directly poured in dry mix.

Cure of the fresh concrete should be performed properly.

All equipments should be cleaned after using them. Materials which became rigid and cured can only be taken out mechanically.

When used in higher dosages other than recommended, set retarding may be observed.

In this case the surface of the concrete should be kept humid.

Notes

All technical information stated out in this product data sheet are based on laboratory experiments. Values obtained in site applications may show changes because of environment and material conditions.

Health and Security Information

Users can get physical, ecological, toxicological information and recommendations related to carrying, storing and safe disposal of chemical products form (MSDS) of the product

First Plant : Baghdad, Tajiat

Second Plant: Baghdad, Al-Obaidi

Third Plant: Sulamani - Kirkuk Road

+964 770 157 8678

Mobiles:`+964 770 002 2222 +964 750 333 9999

Email: hma.iraq@hmachemicals.com