

Admixture for long term retarded, ready to use mortar

Description of Product

Rheomix[®] 540 is revolutionary new concept in mortar admixtures, being a liquid product, based on high quality polycarboxylic acid derivatives, giving considerable extension to the setting time and workability of up to 48 hours for ready to use air entrained mortars and render mixes.

Rheomix[®] 540 complies with:

- BS 5075, Part 1
- EN 934 - 2

Application

Rheomix[®] 540 is specially formulated for use as a mortar retarder, and is manufactured to a precise quality control specification, which ensures uniform predictable performance. Rheomix[®] 540 is non corrosive.

Rheomix[®] 540 has a two-fold effect in cementitious mixes:

- It is adsorbed onto the cement particles, effectively sheeting the cement chemically-reducing the hydration process necessary for the system to stiffen and set.
- A side effect of the adsorption provides liquid to disperse the cement particles more efficiently, producing a workable mix, appearing to behave as a mix richer in cement.

Retarded ready to use mortar is removed from the protected site storage container, applied to bricks, blocks, etc. the water and retarding admixture in the mortar is absorbed by the masonry, causing a

catalytic effect within the mortar to take place, allowing normal stiffening and setting to occur.

Rheomix[®] 540 is used in conjunction with an air entraining mortar plasticiser, such as Micro-Air[®] 116 and can be added at various dosages to give retardation from 12 to 48 hours, considerably increasing the workable life of the mortar.

Features and Benefits

The ability to use pre-mixed, retarded, plasticised (air entrained) mortars, delivered on site in protected storage containers offers many benefits:

- Site storage (and wastage) of cement, lime and sand eliminated.
- Requirement for site mixer eliminated, reducing cost, labour and maintenance.
- Increased productivity.
- Quality controlled, centralised production ensures delivery of a more consistent, quality mortar.
- Up to 48 hours placing time.
- Reduced wastage, (unused mortar can be reused the following day).
- Improved durability - resistance to freeze thaw cycles.
- Reduced water absorption.
- More uniform colour.
- Improved dispersion effect, ensures more even distribution of pigments in coloured mortar.
- Economical in use.

Fields of Applications

Set Retarder / Workability extender for ready to use air entrained mortars.

Technical Data/Typical Properties

Appearance	Opaque Liquid
Specific Gravity	1.17 ± 0.01 @ 20°C
Air entrainment effect	Slight
Chloride Ion Content	Nil
Nitrate Content	Nil
Freezing Point	-2°C

Application Procedure

Dosage

Rheomix[®] 540 is to be added bwc to the mix at the rate of 1000 - 3000ml per 100kg of cement. These are recommended addition rates. To determine the suitable rate of addition site trials are recommended. Rheomix[®] 540 should never be added directly to the cement.

For further information please consult with the BASF IBC Admixture Systems Technical Department.

The manufacturer would advise that trial mixes should be undertaken, using job materials, in simulated job conditions to determine suitable dosage rates and performance.

Over Dosage

Over-dosing using Rheomix[®] 540 can cause the following effects:

- Considerable increases in workability
- Increased Air Entrainment
- Retardation of initial and final set of the mortar

If over-dosing does occur please consult the BASF IBC Admixture Systems Technical Department for recommendations.

Packaging

Rheomix[®] 540 is supplied in 25 Litre, 210 Litre, 1000 Ltr containers and Bulk.

Storage

Store away from direct sunlight in ambient temperatures and in dry conditions.

Shelf life

12 months in manufacturers sealed drums.

Watchpoints

If Rheomix[®] 540 admixture has frozen, thaw at temperatures above 2°C and completely reconstitute by mild agitation. Do not use pressurised air for agitation.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF IBC Admixture Systems Limited" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.