

RHEOMIX™ 720

Liquid mortar plasticiser

Description

RHEOMIX 720 is a liquid ultra stable 'micro' air entraining mortar plasticiser, designed to enhance the workability and freeze / thaw resistance of brick and block laying mortars. RHEOMIX 720 may be used to replace or supplement the use of lime, and is designed to cope with variations in cement and aggregate sources and quality.

Uses

RHEOMIX 720 is an admixture for mortars that improves the workability of bricklaying and plastering mortars and increases their resistance to freeze / thaw cycles.

RHEOMIX 720 is particularly valuable in cold weather, for damp or exposed work, or when restricted site or safety conditions do not permit storage of lime.

Advantages

- Ultra stable bubble structure.
- Uniform air entrainment.
- Compatible with most types of Portland cement and difficult sands.
- Increased resistance to damage by freeze / thaw cycles.
- Reduced segregation and bleed.
- Greatly improved plasticity.
- Reduced permeability.
- Non corrosive to embedded metals.
- Easier and faster mortar spread.
- Fully compatible with mixes containing lime.
- Reduces incidence of efflorescence in mortar.
- Can be used to replace lime.

Standards

- BS 4887, ASTM C91.

Directions for use

RHEOMIX 720 may be either pre-mixed with the water or added directly into the mix at the same time as the water.

Note: The superior plasticising qualities of RHEOMIX 720 will result in a significant reduction in water demand of any given mix.

If hand mixing methods are used, a vigorous mixing action should be used to ensure efficient production of RHEOMIX 720 'micro' air entrainment properties.

Choice of relevant mix designs should be made in line with relevant British Standard Codes of Practice,

Department of Environment Publications or relevant National Standards.

Cement: Sand + RHEOMIX 720	Cement: Lime: Sand:	Masonry Cement: Sand:	Typical Uses
1:3	1:¼:3	-	Laying load-bearing brickwork
1:4½	1:½:4½	-	External rendering (exposed conditions). Backing and bedding coats (rough cast).
1:6	1:1:6	1:4½	Internal plaster floating coats. External rendering.
1:3 to 1:6.	Varies	-	Brickwork, pointing or re-pointing
1:8	1:2:9	1:6	Laying blocks and concrete sand lime bricks.

The action of RHEOMIX 720 is entirely physical. Used in accordance with instructions, it does not significantly affect the setting time or other properties of the mortar.

Action

RHEOMIX 720 replaces lime in the mix and reduces the amount of water required to achieve the required workability, thus reducing the possibility of drying shrinkage, which can result in cracking and crazing. Minute bubbles of air entrained in the hardened mortar provide space for the expansion of water when freezing occurs without disturbance to the body of the mortar.

Dosage

RHEOMIX 720 is added at the rate of 150 to 250ml per 100kg of cement.

Effects of over dosage

Whilst it is undesirable to exceed this stated dosage, the self-controlling action of RHEOMIX 720 limits the amount of air capable of being entrained, thus safeguarding against over dosage.

Compatibility

RHEOMIX 720 can be used with other admixtures provided these are added separately to the mix. It can



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be used for all types of Portland cement, including Sulphate Resisting. It can also be used in lime/sand mortars as a further precaution against frost.

Watch points

RHEOMIX 720 provides protection from frost down to -2°C in the wet mortar. Therefore, RHEOMIX 720 should not be used at temperatures below -2°C or if the temperature is expected to drop below -2°C within 24 hours. Normal winter working precautions must be taken.

Packaging

RHEOMIX 720 is supplied in 210 litre containers or in bulk.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

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