

MasterCast[®] 720 M

Liquid mortar plasticiser

DESCRIPTION OF PRODUCT

MasterCast 720M 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.

MasterCast 720M 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.

PRIMARY USES

MasterCast 720M is an admixture for mortars that improves the workability of brick laying and plastering mortars and increases their resistance to freeze/thaw cycles.

MasterCast 720M 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

PACKAGING

MasterCast 720M is supplied in 25ltr cans and 210ltr drums.

STANDARDS

MasterCast 720M has been tested to comply with BS 4887, ASTM C91

ACTION

MasterCast 720M 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.

DIRECTIONS FOR USE

MasterCast 720M 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 **MasterCast 720M** 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 **MasterCast 720M** '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.

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Cement : Sand + MasterCast 720M	Cement : Lime : Sand	Masonry Sand	Cement	: 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 or sand lime bricks

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

WATCHPOINTS

MasterCast 720M provides protection from frost down to -2°C in the wet mortar. Therefore, **MasterCast 720M** 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.

DOSAGE RATE

MasterCast 720M is added at the rate of 150-250ml/100kg of cement.

COMPATIBILITY

MasterCast 720M can be used with other admixtures, provided these are added separately to the mix. It can be used for all types of Portland cement, including SRC. It can also be used in lime/sand mortars as a further precaution against frost.

EFFECTS OF OVER DOSAGE

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

SPECIFICATION CLAUSE

MasterCast 720M:
All mortar and renders where indicated shall contain **MasterCast 720M** mortar plasticiser, or

similar approved. The plasticiser shall be based on synthetic or sustainable raw materials in an aqueous solution that provides stable and uniformly distributed air bubbles. The admixture shall comply with the requirements of BS 4887.

STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperature.

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

SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

SAFETY PRECAUTIONS

MasterCast 720M contains no hazardous substances requiring labelling. For further information, see material safety data sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

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QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world- wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2008 ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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MBS Construction Chemicals Egypt (S.A.E), Business Park A, Building A1, Cairo Festival City, Ring Road, New Cairo, Egypt
Hotline: 15560, Phone: +202 2128 7800, Fax: +202 2128 7801
Website: <https://www.master-builders-solutions.com/en-eg>



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