

MasterCast[®] 222

Powder Mortar Plasticiser

DESCRIPTION

MasterCast 222 is a mortar plasticiser in powder form for use as an alternative to lime or as a supplement to lime to aid mortar durability.

Complies with EN934/3.

USES

For use as an admixture for mortars to improve workability, in both bricklaying and rendering applications.

MasterCast 222 aids resistance of mortar to frost attack in both wet and cured state; also increases long term durability of both cement, sand and cement, lime, sand mortars (refer to BS 5628)..

BENEFITS

- Economical:
- Reduced labour costs
- Reduced wastage
- Increased spread rates.
- Helps reduce efflorescence.
- Reduces bleed and segregation in the mix.
- Improved bond.
- Improves frost resistance.
- Reduces shrinkage

TECHNICAL DATA/ TYPICAL PROPERTIES

Colour	Brown powder
Chloride Ion Content	<0.1 %% (w/w) of admixture

MasterCast 222 will entrain microscopic air bubbles into cement mortars in a controlled manner as specified in EN934.

Air entrained mixes produce greatly enhanced working properties with a reduced demand for mixing water.

MasterCast 222 also improves frost resistance in both freshly laid and hardened mortars, as the microscopic air bubbles entrained provide space for expansion of water due to freezing.

PACKAGING

Available in 20 gm sachets.

APPLICATION

MasterCast 222 may be added directly into the mixing drum after the addition of sand or pre- mixed with the gauging water. The use of **MasterCast 222** pre-weighed sachets introduced directly to the mix optimises control of dosage and minimises wastage.

WATERPROOFING AND TANKING

Basements lift pits, inspection pits, water towers, liquid tanks, effluent tanks and swimming pools

OTHER TYPICAL APPLICATION

Bedding tiles, fixing or re-fixing slip bricks and bonding new concrete to old.

MIXING

The action of **MasterCast 222** is entirely physical and therefore requires an efficient mixing action. If mixing is to take place by hand the mix must be well “turned over” to achieve the maximum plasticising effect.

Mortar selection should be made in line with the relevant National Standards and Codes of Practice.

The table below gives indicative mix designs relative to uses with and without **MasterCast 222**.

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Cement : Sand + MasterCast 222	Cement: Lime Sand	Typical Uses
1:3	1:1/4:3	Laying load-bearing brick work.
1:4	1:0.5:4.5	External Rendering (exposed positions). Backing and bedding coats (rough cast).
1:6	1:1:6	Internal plaster floating coats . External
1:3 to 1:6	Varies	Brickwork, pointing or re-pointing.
1:8	1:2:9	Laying blocks and concrete or sand-lime bricks.

Portland cement: Lime, sand mixes which also include an air entraining plasticiser have been shown to be particularly durable in accelerated testing

DOSAGE

MasterCast 222 is added at the rate of 30-60 gm per 100 Kg of cement. Always use the type of sand recommended for a particular application. Test mixes should be carried out to determine optimum dosage.

STORAGE AND SHELF LIFE

Store in, cool dry conditions.
 Minimum two years when stored in accordance with the manufacturer's instructions.

WATCH POINTS

MasterCast 222 provides protection from frost down to -2°C in the wet mortar. Normal winter working precautions must be taken.

NOTS

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.

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 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.
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