

MasterCast 355

Powder Admixture for Improved Water Resistance in Mortar & Concrete

MATERIAL DESCRIPTION

MasterCast 355 reduces passage of water through concrete and mortar. It considerably reduces water absorption. By a physical action **MasterCast 355** seals the surface of the mortar/concrete, producing a low permeability system. The hydrophobic ingredient of **MasterCast 355** is insoluble in water and therefore becomes a permanent constituent of hardened concrete.

MasterCast 355 also contains an airetraining plasticiser which allows a reduction to be made in the water content of the mix whilst maintaining workability and the final strength of the concrete or mortar. **MasterCast 355** does not adversely affect setting time.

APPLICATIONS

- To pre-cast concrete and constructed stone products.
- To reduce water ingress in in-situ concrete and cement rendering.

FEATURES AND BENEFITS

MasterCast 355 disperses rapidly upon contact with the mixing water distributing itself throughout the mix.

- Hydrophobic element is insoluble in water.
- Becomes a permanent constituent of the hardened concrete and cannot evaporate or deteriorate.
- Does not change the setting time of cement, reduce strength of concrete or corrode reinforcement.
- Has no chemical reaction. Its action is physical and positive and is thus permanent.
- Reduced labour costs.
- Water permeability and absorption is reduced, hence it prevents movement that can arise from intermittent wetting with a resultant reduction in surface crazing.
- Reconstructed stone work stays cleaner longer and has greater resistance to attack from atmospheric acids.

PACKAGING

Available in 30 x 140gm packets. These packets are not dissolvable.

TECHNICAL DATA/TYPICAL PROPERTIES*

Properties listed are for guidance and are not a guarantee of performance.

Composition	Off-white brown speckled powder containing a blend of selected metallic sterates with a vinsolbased plasticiser.
Chloride Content	<0.1% (w/w) of admixture

MIXING

MasterCast 355 is mixed at the rate of 140gm per 50 Kg of cement used. **MasterCast 355** can be pre-mixed dry with the cement, or alternatively, it can be poured into the mixer at the time the cement is added to the aggregate.

All cementitious mixes containing **MasterCast 355** should be placed in accordance with good construction practice and relevant codes of practice. Good compaction is required in all cases.

DOSAGE

MasterCast 355 should be used at a rate of 140gm per 50kg of Portland cement used.

STORAGE AND SHELF LIFE

Store in cool dry conditions. Minimum 1 year when stored in accordance with the manufacturer's instructions.

WATCH POINTS

MasterCast 355 provides protection from frost down to -2°C in the wet mortar. Normal winter working precautions must be taken.

SAFETY PRECAUTIONS

Avoid contact with eyes and prolonged contact with skin. During application, always wear gloves and appropriate clothing to minimise contact. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Should skin contact occur, wash immediately with soap and water. Seek the advice of a physician should symptoms persist.

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NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

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All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

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