

# MasterCast<sup>®</sup> 355

Powder Admixture For Improved Water Resistance In Mortar & Concrete

## 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 air-entraining 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.

## FIELDS OF APPLICATION

- To pre-cast concrete and reconstructed 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. reduced labour costs
- 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.
- 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.

## TECHNICAL DATA/ TYPICAL PROPERTIES

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

## APPLICATION PROCEDURE APPLICATION

### 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 50 Kg of Portland cement used

### PACKAGING

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

### STORAGE

Store in cool, dry conditions

### SHELF LIFE

Minimum two years when stored in accordance with the manufacturer's instructions.

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## 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

## 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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