

# MasterCast 3323

## High Performance Plasticizer Admixture for Plaster Mortars

### MATERIAL DESCRIPTION

**MasterCast 3323** is a high-performance micro air entraining mortar admixture designed to improve impermeability, workability, and Freeze-Thaw resistance in plaster mortars.

**MasterCast 3323** also acts as a dual-purpose high-performance plasticizer and deflocculating agent with controlled retardation.

### APPLICATIONS

- In inner-outer spaces for vertical applications.
- In plaster mortars to reduce permeability.
- In brick and stone coating mortars for improving workability.
- Hot weather concreting, where controlled delay to initial set is of prime importance.
- Ready-mix mortar concrete, where workability retention coupled with retardation of initial set are beneficial.

### ADVANTAGES

- Has homogenous air entraining property.
- Reduces placing problems in hot weather concreting, by improving workability and workability retention.
- Improves resistance to Freeze-Thaw attack.
- Improves trowelability and surface finish.
- Improves pumpability of concrete.
- Reduces permeability.
- Enables economical mix designs

### PACKAGING

**MasterCast 3323** is available in 1000 litre IBC's.

### TYPICAL PROPERTIES\*

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

Appearance	Brownish liquid
Specific gravity @25°C	1.160 -1.180
pH value	6.0 – 8.0

### STANDARDS

EN 934-3: T2

### DIRECTIONS FOR USE

**MasterCast 3323** should be added to concrete mix during the mixing cycle at the same time as water. Never add **MasterCast 3323** to dry cement. No extension to normal mixing time is required.

### DOSAGE

In all cases, we recommend that trial mixes are carried out to determine the correct levels of admixture required to achieve the desired concrete properties. **MasterCast 3323** is normally dispensed, depending on the desired plasticising or water-reducing effect, at a rate of 200-1000 ml/100kg cementitious content. Other dosages may be used, depending on the materials and conditions. In this case please consult our Technical Services Department for advice.

### SETTING TIMES

**MasterCast 3323** acts efficiently to give controlled retardation of initial set. Setting times of mortar mixes are related to cement type and ambient temperatures.

### COMPATIBILITY

**MasterCast 3323** can be used with all types of Portland cement, including SRC. For use with other special cements, contact Master Builders Solutions' Technical Services Department.

**MasterCast 3323** should not be pre-mixed with other admixtures. If other admixtures are to be used in conjunction with **MasterCast 3323**, it must be dispensed separately. Consult Master Builders Solutions' Technical Services Department for advice.

### STORAGE AND SHELF LIFE

A severe over dosage of **MasterCast 3323** will result in the following:

- Retardation of initial and final set.
- Slight increase in air-entrainment.
- Increase in workability.

Provided it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SRC.

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### DISPENSING

**MasterCast 3323** is introduced into the mixer with the mixing water. The admixture works more efficiently if it is added to the dampened mix after 50-70% of the water has been introduced. No extension to normal mixing time is necessary.

**MasterCast 3323** should never be added to dry cement.

### 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' Technical Services Department.

### SHELF LIFE

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

### SAFETY PRECAUTIONS

**MasterCast 3323** is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the material hazard. Spillages down immediately further information, safety data sheet.

### 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.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

### QUALITY AND RESPONSIBLE CARE

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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