

MasterCast[®] 1163

PCE based High Range Water Reducing Admixture for Pavers & Blocks (Wet Mix Method)

DESCRIPTION

MasterCast 1163 is an innovative multi-purpose superplasticizer based on polycarboxylic ether polymers, specially developed for pavers blocks with low cement content. The product is suitable for the production of pavers, tiles manufactured by wet mix method. At the same time, **MasterCast 1163** accelerates the strength development and reduces the cycle time whilst the appearance is maintained or even improved.

The unique principle of action on the cement grain is that **MasterCast 1163** fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

FIT 4 VALUE:

MasterCast 1163 is a key component to Master Builders Solutions FIT 4 VALUE concept.

FIT 4 VALUE considers the four elements essential for MCP Manufactures:

1. FIT for Economics
2. FIT for Performance
3. FIT for Aesthetics
4. FIT for Durability

Here, FIT means meeting every requirement for economics, performance, aesthetics and durability.

RECOMMENDED USES

- Masonry block units
- Pavers
- Plain cement tiles
- Cement Terrazzo tiles
- Concrete poles & pipes
- Cement roof tiles

FEATURES AND BENEFITS

- Increased early & later age strength
- Shorter curing & cycle time
- Less wear of moulds.
- Improved structure.
- Improved cohesion.
- Reduced water absorption.
- Applicable for all Portland and Slag cements.
- Reduced efflorescence.

PERFORMANCE TEST DATA

Aspect	: Light brown liquid
pH	: ≥ 6
Relative Density	: 1.06 ± 0.01 at 25°C
Chloride ion content:	: < 0.2 %

DOSAGE

Optimum dosage of **MasterCast 1163** should be determined with trial mixes. As a guide, a dosage range of 300ml to 800ml per 100kg of cementitious material is recommended as a starting point. Local production conditions and material types may necessitate dosages outside this range. Please consult your local Master Builders Solutions representative for further advice.

APPLICATION

- Mix the aggregates, the cement and 75% of the mixing water.
- Add the **MasterCast 1163** together with the rest of the mixing water.
- After all ingredients are added continue mixing for 60 to 90 seconds.

SUGGESTED SPECIFICATION

The admixture for wet-mix concrete products shall be **MasterCast 1163**, a PCE based formulation. The product shall have relative density not more than 1.07.

PACKAGING

MasterCast 1163 is available in bulk or in 220 kg drums.

STORAGE /SHELF LIFE

MasterCast 1163 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local Master Builders Solutions representative.

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PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet.

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STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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