

MasterCast[®] GSC 3076

New generation of admixture for Manufactured Concrete Products specially formulated for where the mix has been optimised using Green Sense Concrete technology

DESCRIPTION

MasterCast GSC 3076 uses unique polymers specially developed for semi-dry concrete mixes. The product is suitable for the production of hollow-core slabs, masonry and paving blocks. At the same time, **MasterCast GSC 3076** accelerates the strength development and reduces the cycle time whilst the appearance is maintained or even improved.

Due to its unique principle of action on the cement grain, **MasterCast GSC 3076** fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

GREEN SENSE CONCRETE

Green Sense Concrete is an optimized mix program in which recycled cementitious and non-cementitious materials are used in combination with specially formulated Master Builders Solutions admixtures. The result is an environmentally preferred, cost-effective concrete that meets, and often exceeds, performance targets. The positive impact of using Green Sense Concrete on sustainability criteria is quantified by certified eco-efficiency analysis or environmental product declaration.

ADVANTAGES

MasterCast GSC 3076 offers the following benefits for the MCP industry:

- Optimised mix design
- Enhanced productivity due to shorter cycle time
- Higher early strength
- Optimised curing cycles due to shorter curing times

PACKAGING

MasterCast GSC 3076 is available in 210 L drums or bulk.

STANDARDS

EN 934-2 Table 3.1 and 3.2

TYPICAL PROPERTIES*

Appearance	Whitish to light brownish coloured liquid
Specific gravity @ 25°C	1.015 - 1.055
pH-value	4.0 to 7.0

APPLICATION GUIDELINES

MasterCast GSC 3076 is a liquid ready-to-use admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water. The water content is adjusted to obtain the desired consistence or workability.

Dosage rate

The normally recommended dosage rate is 0.4-1.2 L/100 kg of cementitious material.

Other dosages may be used in special cases according to specific job site conditions. In this case please consult our Technical Services Department.

MIXING

MasterCast GSC 3076 is compatible and recommended for use with:

- **MasterCast WP 240**, efflorescence controller along with waterproofing and water-repelling when sprayed
- **MasterCast 3936**, water-repellant and stain resistant when sprayed.

Note: **MasterCast GSC 3076** is not compatible with **MasterCast 764** or **MasterRheobuild** superplasticizers.

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STORAGE AND SHELF LIFE

MasterCast GSC 3076 must be stored in a place where the temperature does not drop below 5°C. If stored in unopened containers according to manufacturer's instructions, the shelf life is 12 months.

HEALTH AND SAFETY

No special requirements must be observed while the product is used. Protection gloves and glasses are recommended. Do not eat, drink or smoke during the application. **MasterCast GSC 3076** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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STATEMENT OF RESPONSIBILITY

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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