

MasterCast 3131

New generation plasticizer for Manufactured Concrete Products, specially engineered for block and paver mixes

MATERIAL DESCRIPTION

MasterCast 3131 is an innovative multipurpose plasticizer specially developed for semi-dry concrete mixes used in the production of blocks and pavers. **MasterCast 3131** accelerates the strength development and reduces the cycle time whilst the appearance is maintained or even improved. Furthermore, it allows for improved compaction and mould release.

Due to its unique principle of action on the cement grain, **MasterCast 3131** fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

FIT 4 VALUE:

MasterCast 3131 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.

APPLICATIONS

MasterCast 3131 is suitable for manufacturing concrete products, especially:

- Pavers
- Blocks

FEATURES AND BENEFITS

MasterCast 3131 offers the following benefits for the MCP industry to:

- Optimised mix design.
- Enhanced productivity due to shorter cycle time.
- Higher early strength.
- Optimised curing cycles due to shorter curing times.
- Improved compaction and mould release.
- Improved stacking capability.

PACKAGING

MasterCast 3131 is available in 1000 litre IBCs.

APPLICATION PROCEDURE

MasterCast 3131 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 consistency or workability.

TYPICAL PROPERTIES*

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

Appearance	Brownish liquid
Specific gravity @25°C	1.090 -1.100
pH value	5.0 – 7.0

DOSAGE

The normally recommended dosage rate is 0.3 to 1.0 litres per 100 kg of cement.

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

COMPATIBILITY

MasterCast 3131 is compatible and recommended for use with:

MasterCast 3131 is not compatible with MasterGlenium superplasticizers.

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STORAGE

MasterCast 3131 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 1 year.

HANDLING AND TRANSPORTATION

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 3131** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

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.

DISCLAIMER

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