

MasterCast[®] 746

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

DESCRIPTION

MasterCast 746 is an innovative multi-purpose plasticizer specially developed for semi-dry concrete mixes. The product is suitable for the production of blocks and pavers. At the same time, **MasterCast 746** 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 746** fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

FIT 4 VALUE:

MasterCast 746 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.

TYPICAL APPLICATIONS

MasterCast 746 is suitable for Manufacturing Concrete Products, especially:

- Pavers
- Blocks

ADVANTAGES

MasterCast 746 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

PACKAGING

MasterCast 746 is available in 210 L drums or bulk.

TYPICAL PROPERTIES*

Appearance	dark brown free-flowing liquid
Specific gravity @ 25°C	1.206
pH-value	7 - 10

APPLICATION GUIDELINES

MasterCast 746 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 0.3 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.

MIXING

MasterCast 746 is compatible and recommended for use with:

- **MasterCast 742**, colour enhancer
- **MasterCast 744**, water repellent, to reduce water absorption (e.g. EN 1338, class 2 B)

Note: **MasterCast 746** is not compatible with **MasterCast 763, 700, 701, 703** or **MasterGlenium** superplasticizers.

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STORAGE AND SHELF LIFE

MasterCast 746 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 2 years.

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 746** 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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