

# MasterCast<sup>®</sup> 764

**New generation plasticizer for Manufactured Concrete Products, specially engineered for hollow-core slabs, block and paver mixes**

## DESCRIPTION

**MasterCast 764** is an innovative multi-purpose plasticizer specially developed for semi-dry concrete mixes. The product is suitable for the production of hollow-core slabs, blocks and pavers. At the same time, **MasterCast 764** 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 764** fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

## FIT 4 VALUE:

**MasterCast 764** 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 764** is suitable for Manufacturing Concrete Products, especially:

- Pavers
- Blocks
- Hollow-core slabs.

## ADVANTAGES

**MasterCast 764** 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 764** is available in 210 L drums or bulk.

## STANDARDS

EN 934-2 Table 3.1 and 3.2

## TYPICAL PROPERTIES\*

Appearance	dark brown free-flowing liquid
Specific gravity @ 25°C	1.205
pH-value	7 - 10

## APPLICATION GUIDELINES

**MasterCast 764** 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 to 1.2 L/100kg 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 764** 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 764** is not compatible with **MasterCast 763, 700, 701, 703** or **MasterGlenium** superplasticizers.

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## STORAGE AND SHELF LIFE

**MasterCast 764** 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 764** 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.

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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.

**Master Builders Solutions**  
Construction Chemicals LLC  
P.O. Box 37127, Dubai, UAE  
Tel: +971 4 8090800  
[www.master-builders-solutions.com/en-ae](http://www.master-builders-solutions.com/en-ae)

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