**MasterCast® 746** (Formerly known as RheoFIT® 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 BASF’s 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.

**FIELDS OF APPLICATION**

*MasterCast® 746* is suitable for Manufacturing Concrete Products, especially:
- Pavers
- Blocks

**FEATURES AND BENEFITS**

*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

**APPLICATION PROCEDURE**

*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.

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>dark brown free-flowing liquid</td>
</tr>
<tr>
<td>Specific gravity @ 25°C</td>
<td>1.206</td>
</tr>
<tr>
<td>pH-value</td>
<td>7 - 10</td>
</tr>
</tbody>
</table>

**DOSEAGE 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.

**COMPATABILITY**

*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)

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

**PACKAGING**

*MasterCast® 746* is available in 1,000 litre containers or in bulk.
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**STORAGE**

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

**NOTE**

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

**QUALITY AND CARE**

All products originating from BASF Construction Chemicals South Africa are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, 2008.

* Properties listed are based on laboratory controlled tests.

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**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this BASF 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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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