MasterCast® 900  
Plasticizing Admixture  
Formerly RheoFIT 900*

Description
MasterCast 900 plasticizing admixture is based on a unique, patented chemistry specially formulated to enhance the production efficiency and aesthetic appeal of manufactured concrete products. As compared to traditional plasticizing chemistries, MasterCast 900 admixture additionally disperses cement, pozzolans, and integral pigments, further reduces compaction/extrusion resistance, and improves both material feed and distribution. This results in increased compressive and flexural strengths, faster production rates, and improved surface finish characteristics.

Applications
Recommended for use in:
- Concrete blocks
- Pavers and patio slabs
- Segmental retaining walls
- Hollow core slabs
- Concrete pipes
- Concrete roof tiles

Features
- Flexible dosage range
- Excellent mix flowability and extrusion properties
- Optimized dispersing and lubricating mechanisms
- Reduces stickiness in problematic mix designs
- Unique plasticizing technology that fully exploits cementitious potentials yielding higher early- and ultimate-strengths
- Produces a light swipe on the formed surfaces of manufactured concrete products

Benefits
- Increases production rates
- Increases compressive and flexural strengths
- Improves color and texture uniformity
- Reduces breakage, culls, and surface defects
- Extends mold life and reduces machine wear
- Assists material fill of large format machinery and constricted mold designs
- Increases mix moisture tolerance and produces consistent results at higher w/c ratios
- Provides a wide window of operation with a high degree of predictability

Material Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7.13</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.03</td>
</tr>
<tr>
<td>Viscosity</td>
<td>53 cP</td>
</tr>
<tr>
<td>Appearance</td>
<td>Brown aqueous solution</td>
</tr>
</tbody>
</table>

*Products are generally classified in codes shown in the table above.
Guidelines for Use

**Dosage:** 2 to 12 oz/cwt (130 to 780 mL/100 kg) total cementious material. Please consult with your local sales representative if dosages outside the recommended range are being considered.

**Mixing:** For maximum efficiency, add MasterCast 900 admixture after the majority of the mix water (approximately 75%) has been introduced and the cement has been sufficiently dampened. Allow at least 90 seconds of additional mix time after admixture has been dispensed.

Storage and Handling

**Storage Temperature:** MasterCast 900 admixture must be stored at temperatures above 40 ºF (4 ºC) and below 105 ºF (42 ºC). MasterCast 900 admixture should not be used after it freezes.

**Shelf Life:** MasterCast 900 admixture has a minimum shelf life of six months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life has been exceeded.

Packaging

MasterCast 900 admixture is available in 55 gal (208 L) drums, 275 gallon (1041 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterCast 900 admixture

Additional Information

For additional information on MasterCast 900 admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF’s Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

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