MasterGlenium® 3573
Polycarboxylic ether based superplasticizer for the production of high quality ready-mix concrete

DESCRIPTION

MasterGlenium® 3573 is an innovative second generation superplasticizer based on polycarboxylic ether (PCE) polymers, and is specially engineered for ready-mix concrete.

MasterGlenium® 3573 is differentiated from conventional superplasticizers, such as those based on sulphonated naphthalene formaldehyde condensate in that it is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process the same electrostatic dispersion occurs but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance which stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand.

FIELD OF APPLICATION

MasterGlenium® 3573 is used for the production of high quality ready-mix concrete.

FEATURES AND BENEFITS

THE READY-MIX PRODUCER:
• Capability of delivering high performance concrete at any time to the job site in place
• Production of a concrete with low water cement ratios with excellent workability retention properties.
• Single product for many application needs

THE CONTRACTOR / APPLICATOR:
• Easier placing and faster strength development
• Improved concrete surfaces
• Guarantee to place the same concrete as specified and ordered from ready-mix plant

THE ENGINEER:
• Insurance that concrete meets original specification
• High quality durable concrete

PACKAGING

MasterGlenium® 3573 is available in 20L, 210 litre drums, 1000 litre IBC’s or in bulk.

TYPICAL PROPERTIES*

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brownish liquid</td>
</tr>
<tr>
<td>Specific gravity @ 25°C</td>
<td>1.060 - 1.080</td>
</tr>
<tr>
<td>pH value</td>
<td>5.0 - 7.0</td>
</tr>
<tr>
<td>Chloride content</td>
<td>“chloride-free” to EN 934-2</td>
</tr>
</tbody>
</table>

The occurrence of a surface layer with MasterGlenium® 3573 is normal and will have no effect on the performance of the product.

STANDARDS

ASTM C-494 Type F&G
BS EN 934-2

APPLICATION PROCEDURE

DOSAGE

The normally recommended dosage rate of MasterGlenium® 3573 is 0.45 to 1.50 litre per 100kg of total cementitious material.

Other dosages may be recommended in special cases according to the specific site conditions. In this case please consult our Technical Services Department for advice.

MIXING

MasterGlenium® 3573 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if MasterGlenium® 3573 is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates.
MasterGlenium® 3573

COMPATIBILITY

MasterGlenium® 3573 is not compatible with MasterRheobuild® superplasticizers.

MasterGlenium® 3573 is suitable for mixes containing:
- Microsilica (Silica Fume)
- Fly Ash (PFA)
- GGBS (ground granulated blast furnace slag)

STORAGE

MasterGlenium® 3573 should be stored out of direct sunlight and protected from extremes of temperature. The shelf life is 12 months when stored as above.

HANDLING AND TRANSPORTATION

No special requirements must be observed during use. Protection gloves and glasses are however recommended. MasterGlenium® 3573 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

SAFETY PRECAUTIONS

MasterGlenium® 3573 contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

QUALITY AND RESPONSIBLE 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 (ISO 9001), environmental and occupational health & safety standards.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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.

BASF Construction Chemicals South Africa (Pty) Ltd 852
Sixteenth Road, Midrand
PO Box 2803, Halfway House, 1685
Tel: +27 11 203 2405 Fax: +27 11 203 2679
www.master-builders-solutions.basf.co.za
Revision Date: 14/06/2018

Please refer to the BASF website to ensure that you have the latest version of this Technical Data Sheet.