

MasterGlenium[®] 3979

Polycarboxylic Ether based superplasticizer for the production of high quality calcium sulphate screeds

DESCRIPTION

MasterGlenium 3979 is an innovative latest generation superplasticizer based on Polycarboxylic Ether (PCE) polymers, and is specially engineered for the production of calcium sulphate based materials. **MasterGlenium 3979** is formulated from unique polymers produced in-house by Master Builders Solutions specifically to improve the performance of products made using calcium sulphate such as screeds and gypsum boards.

TYPICAL APPLICATIONS

MasterGlenium 3979 is used for the production of high quality products based on calcium sulphate.

ADVANTAGES

- Reduced water content leading to increased strength and reduced shrinkage
- Screed is easier to place and finish
- Reduced cracking and curling of screeds

PACKAGING

MasterGlenium 3979 is available in 210 L drums, 1,000 L containers or in bulk.

STANDARDS

ASTM C494 Type F & G
 EN 934-2

TYPICAL PROPERTIES*

Appearance and Form	Clear to slightly amber
Specific gravity @ 25°C	1.1
pH value @ 25°C	4.0 - 7.0
Chloride ion content	"Chloride Free" to EN 934

APPLICATION GUIDELINES

The normally recommended dosage rate of **MasterGlenium 3979** is 2.0 to 4.0 L/100kg of calcium sulphate.

Other dosages may be used in special cases according to specific production conditions. In this case please consult our Technical Services Department.

MIXING

MasterGlenium 3979 is a ready-to-use admixture to be added to the mix as a separate component. Optimal result is obtained if **MasterGlenium 3979** 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 3979 is suitable for mixes containing:

- Calcium sulphate
- Fly Ash (PFA) and GGBS
- Microsilica (silica fume)

Note: **MasterGlenium 3979** is not compatible with **MasterRheobuild** superplasticizers due to the PCE polymers contained in its formulation.

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STORAGE AND SHELF LIFE

MasterGlenium 3979 should be stored in closed containers or storage tanks to protect from evaporation. The shelf life is 12 months when stored as above.

HEALTH AND SAFETY

No special requirements must be observed during use. Protection gloves and glasses are however recommended. **MasterGlenium 3979** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

MasterGlenium 3979 contains no hazardous substances requiring labelling. For further information, refer to the Material Safety Data Sheet.

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.

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