

MasterEase[®] 3120

Poly Aryl Ether based superplasticizer for the production of high-quality ready-mix concrete

DESCRIPTION

MasterEase 3120 is an innovative latest generation superplasticizer based on Poly Aryl Ether (PAE) polymers and is specially engineered for ready-mix concrete.

MasterEase 3120 is formulated from unique polymers produced in-house by Master Builders Solutions. The objective of the development of the PAE polymer was to take the characteristics of traditional polycarboxylic ether (PCE) admixtures but to modify the structure of the polymer to give enhanced rheology and robustness to the concrete.

The PAE polymers contained in the formulation of **MasterEase 3120** ensure that enhanced rheology is maintained from time of mixing to time of placing and finishing.

TYPICAL APPLICATIONS

MasterEase 3120 is used for the production of high-quality ready-mix concrete.

ADVANTAGES

The ready-mix producer:

- Capability of delivering high performance concrete with enhanced rheology
- Reduces concrete pumping time and wear-and-tear on equipment
- Concrete is easier to place and finish
- Enhanced rheology is maintained from time of mixing to time of placement

The contractor / applicator:

- Easier placing and high early strength development
- Improved concrete surfaces

The engineer:

- Insurance that concrete meets original specification
- High quality durable concrete

PACKAGING

MasterEase 3120 is supplied in bulk.

STANDARDS

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

TYPICAL PROPERTIES*

Appearance	Light to medium brown liquid
Specific gravity @ 25°C	1.085 - 1.100
pH value	4.0 - 7.0
Chloride content	"chloride-free" to EN 934

APPLICATION GUIDELINES

The normally recommended dosage rate of **MasterEase 3120** is 0.8 - 2.5 L/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

MasterEase 3120 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterEase 3120** 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.

MasterEase 3120 is suitable for mixes containing:

- Microsilica (Silica Fume)
- Fly Ash (PFA)
- GGBS (ground granulated blast furnace slag)

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STORAGE AND SHELF LIFE

MasterEase 3120 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. **MasterEase 3120** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

MasterEase 3120 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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