

MasterEase[®] 3975

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

DESCRIPTION

MasterEase 3975 is an innovative latest generation superplasticizer based on Poly Aryl Ether (PAE) polymers and is specially engineered for ready-mix concrete.

MasterEase 3975 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 3975** ensure that enhanced rheology is maintained from time of mixing to time of placing and finishing.

TYPICAL APPLICATIONS

MasterEase 3975 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
- Concrete is easier to pump reducing 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 faster strength development
- Improved concrete surfaces

The engineer:

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

PACKAGING

MasterEase 3975 is supplied in 210 L drums, 1,000 L containers or in bulk.

STANDARDS

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

TYPICAL PROPERTIES*

Appearance	Clear to light brown coloured liquid
Specific gravity @ 25°C	1.105
pH value	5.0 – 7.0
Chloride content	"chloride-free" to EN 934

APPLICATION GUIDELINES

The normally recommended dosage rate of **MasterEase 3975** is 0.8 to 2.5 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

MasterEase 3975 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterEase 3975** 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 3975 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 3975 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 3975** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

MasterEase 3975 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

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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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