

# MasterEase<sup>®</sup> 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 BASF. 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.

## FIELDS OF APPLICATION

**MasterEase 3975** is used for the production of high quality ready-mix concrete.

## FEATURES AND BENEFITS

### 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 litre drums, 1,000 litre containers or in bulk.

## 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            |

## STANDARDS

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

## APPLICATION AND PROCEDURE

### DOSAGE

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.

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## COMPATIBILITY

**MasterEase 3975** is suitable for mixes containing:

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

## STORAGE

**MasterEase 3975** should be stored in closed containers or storage tanks to protect from evaporation. The shelf life is 1 year when stored as above.

## HANDLING AND TRANSPORTATION

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.

## SAFETY PRECAUTIONS

**MasterEase 3975** contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

## NOTES

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

\* Properties listed are based on laboratory controlled tests.

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

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### 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.