

# MasterEase 3969

Superplasticizer for the production of high quality ready-mix concrete with enhanced rheology

## MATERIAL DESCRIPTION

**MasterEase 3969** is an innovative superplasticizer designed to give class-leading rheology and workability.

**MasterEase 3969** is formulated from unique polymers produced in-house by Master Builders Solutions. The objective of the development of this new, next generation polymer was to take the characteristics of traditional polycarboxylic ether (PCE) admixtures but to give enhanced rheology and robustness to the concrete.

The polymers contained in the formulation of **MasterEase 3969** ensure that enhanced rheology is maintained from time of mixing to time of placing and finishing.

## AREAS OF APPLICATION

**MasterEase 3969** is used for the production of high quality ready-mix concrete.

## CHARACTERISTICS AND BENEFITS

### For the Ready-mix Producer:

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

### For the Contractor / Applicator:

- Easier placing and improved strength development
- Improved concrete surfaces

### For the Engineer:

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

## PACKAGING

**MasterEase 3969** is supplied 1,000 litre containers.

## TYPICAL PROPERTIES\*

Appearance	Brownish Liquid
Specific gravity @25°C	1.070 - 1.090
pH value	6.0 – 9.0
Chloride Content	“chloride-free” to EN 934-2

The occurrence of a surface layer with **MasterEase 3969** is normal and will have no effect on the performance of the product.

## DOSAGE

The normally recommended dosage rate of **MasterEase 3969** is 0.5 to 1.5 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 3969** is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterEase 3969** 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.

## COMPATIBILITY

**MasterEase 3969** is not compatible with MasterRheobuild superplasticizers.

**MasterEase 3969** is suitable for mixes containing:

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

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## STORAGE / SHELF LIFE

**MasterEase 3969** should be stored out of direct sunlight and protected from extremes of temperature. The shelf life is 12 months when stored as above.

## HANDLING & TRANSPORTATION

No special requirements must be observed during use. Protection gloves and glasses are however recommended. **MasterEase 3969** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

## PRECAUTIONS

**MasterEase 3969** contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

## NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

## QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

\* Properties listed are based on laboratory controlled tests.

## DISCLAIMER

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