

# MasterPolyheed 3845

Water reducing superplasticizer for the production of high quality day-to-day ready-mix concrete

## MATERIAL DESCRIPTION

**MasterPolyheed 3845** is an economical admixture based on modified polycarboxylic ether. The product has been primarily developed for applications in ready mix and site-batched concrete.

**MasterPolyheed 3845** is specially designed to allow for mid to high range mix water reduction while maintaining flexible degrees of slump retention without retardation.

**MasterPolyheed 3845** is free of chloride & low alkali. It is compatible with all types of cements.

**MasterPolyheed 3845** admixture provides the concrete producer with the ability to immediately create the optimal admixture system for changing and fluctuating regional raw materials, environmental conditions and project requirements.

**MasterPolyheed 3845** admixture gives the concrete producer the ability to consistently produce and deliver quality day-to-day concrete.

## RECOMMENDED USE

- Ready mixed concrete
- Pumped concrete
- High workability concrete without segregation or bleeding.
- Improved durability concrete.
- Congested/complex reinforced sections.
- Concrete mixes utilizing supplementary cementitious materials.

## FEATURES AND BENEFITS

- Good dispersion even in mixes with high fines
- Improved workability for longer periods
- Lower pumping pressure
- Resistance to segregation even at greater workability
- Good mid-range slump retention
- Reduced water content for a given workability.
- Easier pumpability and place ability.
- Higher ultimate strengths
- Greater ease in finishing concrete

## PACKAGING

**MasterPolyheed 3845** is available in 1000 litre IBC's.

## TYPICAL PROPERTIES\*

Appearance	Brownish Liquid
Specific gravity @25°C	1.110 - 1.130
pH value	6.0 – 9.0
Chloride Content	“chloride-free” to EN 934-2

The occurrence of a surface layer with **MasterPolyheed 3845** is normal and will have no effect on the performance of the product.

## DOSAGE

The normally recommended dosage rate of **MasterPolyheed 3845** is 0.4 to 1.2 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

**MasterPolyheed 3841** is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterPolyheed 3841** 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

**MasterPolyheed 3845** is not compatible with MasterRheobuild superplasticizers.

**MasterPolyheed 3845** is suitable for mixes containing:

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

# MasterPolyheed 3845

---

**Water reducing superplasticizer for the production of high quality day-to-day ready-mix concrete**

## STORAGE / SHELF LIFE

**MasterPolyheed 3845** 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. **MasterPolyheed 3845** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

## PRECAUTIONS

**MasterPolyheed 3845** 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

The technical information and application advice given in this MB Construction Chemicals Solutions South Africa (Pty) Ltd 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.