

MasterPolyheed 8830

New generation mid-range water reducer

Material Description

MasterPolyheed 8830 is a multi-component, non-chloride, mid-range water reducing admixture designed to improve the performance of concrete both in the plastic and hardened states. **MasterPolyheed 8830** is a versatile admixture able to produce mid-range slumps without retardation. Its formulation contains materials able to improve the concrete's rheology, strength and finishability.

Areas of Application

- All types of concrete where a non-chloride water reducing admixture is required, especially in the slump band (80 - 150mm)
- Improving the performance of pumped concrete, shotcrete and conventionally placed concrete
- Improving the performance of plain, reinforced, precast, light weight or standard weight concrete
- Use in white or coloured concrete
- Use in architectural concrete, especially where off-form and/or surface finish is critical
- Use in concrete containing harsh aggregates and/or manufactured sands

Characteristics and Benefits

MasterPolyheed 8830 mid-range water reducer aids in the production of concrete with these qualities.

In the plastic state:

- normal setting characteristics throughout the recommended dose range
- reduced segregation, particularly in lean mixes and mid slump concrete
- improved mix rheology
- improved pumpability
- reduced water content for a given workability
- enhanced finishability, especially for concrete with manufactured or harsh aggregates

In the hardened concrete:

- no added chlorides, conforms to the most stringent chloride ion limits including AS3600 concrete structures code, will not initiate or promote the corrosion of reinforcing steel
- increased strength – compressive, flexural and bond (concrete to steel)
- superior finished appearance
- increased density and durability
- reduced permeability – improved watertightness
- reduced cracking

Caution

MasterPolyheed 8830 has a synergistic effect with air entraining agents (AEA) which may produce up to four times the volume of entrained air.

Quantity to Use

MasterPolyheed 8830 is a versatile admixture with a dose rate of 300 to 800 mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction. The improved pumpability and finishability aspects of **MasterPolyheed 8830** are enhanced with increasing dose rate. The correct dosage rate in each instance should be determined by correctly conducted trials under the supervision of a Technical Sales Representative.

Dispensing

MasterPolyheed 8830 can be added at the batch plant or on site. When adding at batch plant, delay addition until cement has been thoroughly wetted out and at least 75% of water added. When introduced on site, mix for a further 4 minutes after addition.

Compatibility

MasterPolyheed 8830 is not compatible with admixtures containing sulfonated naphthalene formaldehyde condensates (BNS). **MasterPolyheed 8830** can be used with other Master Builders Solutions admixtures to achieve cost effective customised performance.

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However, those admixtures should be dispensed separately and added separately to ensure complete distribution throughout the mix. **MasterPolyheed 8830** should not be used in conjunction with other admixtures unless specific test information is available.

Packaging

MasterPolyheed 8830 is available in 1000 litre pallecons and bulk delivery.

Storage & Shelf Life

Keep away from heat. Store protected against freezing. Do not keep the container sealed. Formation of CO₂ and build-up of pressure possible.

Storage stability: Storage temperature: 5 - 50 °C. The packed product is not damaged by low temperatures or by frost. The packed product will not be damaged by high temperatures.

MasterPolyheed 8830 has a shelf life of 12 months.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Disclaimer

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STATEMENT OF RESPONSIBILITY

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MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Unit 102, 2 Burbank Place
Norwest NSW 2153

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
Albany, Auckland
New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand