

MasterPolyheed 8840

Mid-range water reducer with superior pumping and finishing properties

Material Description

MasterPolyheed 8840 is a multi-functional, non-chloride, mid-range water reducing admixture designed to improve the performance of concrete both in the plastic and hardened states. **MasterPolyheed 8840** is a versatile admixture capable of producing low, mid and high range slumps. Its formulation contains ingredients to improve the concrete's workability and finishability. **MasterPolyheed 8840** meets and exceeds the requirements of ASI 478 Type MWR.

Areas of Application

- All types of concrete where a non-chloride water reducing admixture is required, especially in the mid-range slump band (100-160mm)
- Improving the performance of pumped concrete, conventionally placed concrete and shotcrete
- 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 8840 mid-range water reducer aids in the production of concrete with these qualities.

In the plastic state:

- reduced segregation, particularly in lean mixes and mid-range slump concrete
- improved workability
- improved pumpability
- reduced water content for a given workability
- enhanced finishability, especially for concrete with manufactured or harsh aggregates

In 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 finish
- reduced cracking
- reduced permeability
- increased durability

Caution

MasterPolyheed 8840 has a synergistic effect with air entraining agents such as MasterAir 940 and MasterAir 905 which may produce more than the desired air entrainment.

Quantity to Use

MasterPolyheed 8840 is a versatile admixture with a recommended dose rate of 200 to 1200 mls per 100kg of cementitious material. An increase in dose rate results in increased water reduction. The correct dose rate in each instance should be determined by conducting trials under the supervision of a Master Builders Solutions Technical Sales Representative if possible.

Dispensing

MasterPolyheed 8840 can be added at the batch plant or on site. When added at the batch plant, for best results 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 8840 is not compatible with admixtures containing sulfonated naphthalene formaldehyde condensates (BNS). **MasterPolyheed 8840** can be used with other Master Builders Solutions admixtures to achieve cost effective customised performance. However, those admixtures should be dispensed separately and added separately to ensure complete distribution throughout the mix.



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MasterPolyheed 8840 should not be used in conjunction with other admixtures unless specific test information is available.

Packaging

MasterPolyheed 8840 is available in 1000 litre pallecons and bulk delivery.

Storage & Shelf Life

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

Storage stability: Storage temperature: 5 - 45 °C

Protect from temperatures below 5 °C.

Packaged product can be damaged at low temperatures or by frost. Protect from temperatures above 45 °C. Packaged product can be damaged by high temperatures.

MasterPolyheed 8840 has a shelf life of 12 months when stored as recommended.

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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