

MasterPolyheed 8820

New generation, normal to mid-range water reducer with superior slump retention, pumping and finishing

Material Description

MasterPolyheed 8820 is a multi-component, non-chloride, normal to mid-range water reducing admixture designed to improve the performance of concrete both in the plastic and hardened states. **MasterPolyheed 8820** is a versatile admixture able to produce and maintain mid-range slumps for extended periods without retardation. Its formulation contains materials able to improve the concrete's workability and finishability.

Areas of Application

- All types of concrete where a non-chloride water reducing admixture is required, especially in the mid-range slump band (100-150mm)
- 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 architectural concrete, especially where off-form and/or surface finish is critical

Characteristics and Benefits

MasterPolyheed 8820 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
- Superior slump retention
- Improved workability
- Improved pumpability
- Reduced water content for a given workability
- Enhanced finishability

In the hardened state

- 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 water tightness
- Reduced cracking
- Reduced shrinkage and creep

Properties

Form	Liquid
Colour	Dark brown liquid
Specific Gravity	1.053 – 1.073
pH	5.0 – 7.0
NVM	24.3 – 26.3 % w/w

Quantity to Use

MasterPolyheed 8820 is a versatile admixture with a dose rate of 300 to 1200mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction. The improved slump retention, pumpability and finishability aspects of **MasterPolyheed 8820** are enhanced with increasing dose rate. The correct dosage rate in each instance should be determined by controlled laboratory and/or field trials conducted under the supervision of a Master Builders Solutions Technical Sales Representative.

Dispensing

MasterPolyheed 8820 can be added at the batch plant or on site. When adding at batch plant, **MasterPolyheed 8820** should be added with the initial batch water, to ensure maximum dispersion throughout the mix. Do not add onto dry aggregates or cement. When introduced on site, mix for a further 5 minutes after addition.

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Compatibility

MasterPolyheed 8820 is not compatible with admixtures containing sulphonated naphthalene formaldehyde condensates (BNS).

MasterPolyheed 8820 can be used with other Master Builders Solutions admixtures to achieve cost effective customized performance. However, any combination must be tested in controlled laboratory or field trials to ensure the combination will meet the desired performance parameters before proceeding to actual project mixes.

Further, those admixtures should be dispensed separately and added separately to ensure complete distribution throughout the mix. Care should be taken when used in conjunction with an AEA as there may be a synergistic effect increasing the air content of the final mix above that desired.

MasterPolyheed 8820 should not be used in conjunction with other admixtures unless specific test information is available.

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. The packed product is not damaged by low temperatures or by frost. The packed product will not be damaged by high temperatures.

MasterPolyheed 8820 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.

Packaging

MasterPolyheed 8820 is available in 1000 litre pallecons and bulk delivery.

Disclaimer

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia 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 and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

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