

MasterPolyheed[®] 3535

Next generation superplasticizer for the production of high-quality ready-mix concrete with low water cement ratio

DESCRIPTION

MasterPolyheed 3535 is part of a range of latest generation superplasticizers formulated from unique polymers manufactured in-house by Master Builders Solutions. It is specially engineered for ready-mix concrete.

MasterPolyheed 3535 is differentiated from conventional superplasticisers, such as those based on sulphonated naphthalene formaldehyde condensate in that it is based on unique polymers with long lateral chains.

TYPICAL APPLICATIONS

MasterPolyheed 3535 is used for the production of high-quality ready-mix concrete.

ADVANTAGES

The ready-mix producer:

- Capability of delivering high performance concrete at any time to the job site in place
- Production of a concrete with low water cement ratios with excellent workability retention properties
- Single product for many application needs

The contractor / applicator:

- Easier placing and faster strength development
- Improved concrete surfaces
- Guarantee to place the same concrete as specified and ordered from ready-mix plant

The engineer:

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

PACKAGING

MasterPolyheed 3535 is supplied in 1,000 L containers or in bulk.

STANDARDS

ASTM C-494 Type F&G
 BS EN 934-2

TYPICAL PROPERTIES*

| | |
|-------------------------|-------------------------------|
| Appearance | Clear to brown colored liquid |
| Specific gravity @ 25°C | 1.074 |
| pH value | 4.0 to 7.0 |
| Chloride content | "chloride-free" to EN 934 |

APPLICATION GUIDELINES

The normally recommended dosage rate of **MasterPolyheed 3535** is 0.80 to 3.0 L/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 3535 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if **MasterPolyheed 3535** 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.

MasterPolyheed 3535 is suitable for mixes containing all types of cement and supplementary cementitious materials such as:

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

Note: **MasterPolyheed 3535** is not compatible with **MasterRheobuild** superplasticizers.

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STORAGE AND SHELF LIFE

MasterPolyheed 3535 should be stored in closed containers or storage tanks to protect from evaporation. The shelf life is 12 months when stored as above.

The occurrence of a surface layer with **MasterPolyheed 3535** is normal and will have no effect on the performance of the product.

HEALTH AND SAFETY

No special requirements must be observed during use. Protection gloves and glasses are however recommended. **MasterPolyheed 3535** is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

MasterPolyheed 3535 contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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NOTE

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