

MasterRheobuild 1000NT

High range, water reducing retarding admixture

Material Description

MasterRheobuild 1000NT is a strength enhancing, superplasticising, high range, water reducing retarding admixture formulated to produce rheoplastic concrete.

Rheoplastic concrete is fluid concrete with a slump value of at least 200mm, easily flowing but at the same time free from segregation, and having the same water/cement ratio as that of no-slump concrete (25mm) without admixture.

MasterRheobuild 1000NT is a ready-to-use, chloride free, liquid admixture which meets ASTM C 494 requirements for types A and F admixtures, AS 1478 Type HWRR.

Areas of Application

- All types of premixed concrete where high water reduction or flowing properties are required
- Precast concrete
- Shotcrete

MasterRheobuild 1000NT has been used successfully in:

- pillars and footings
- prestressed elements
- long distance, vertical or horizontal pumping
- pavements
- tunnel linings
- partition walls
- bridge girders
- precasting systems
- tunnel-type shuttering systems
- in-situ casting structures
- shotcrete
- travelling formwork casting
- slipform casting
- cantilever casting

Characteristics and Benefits

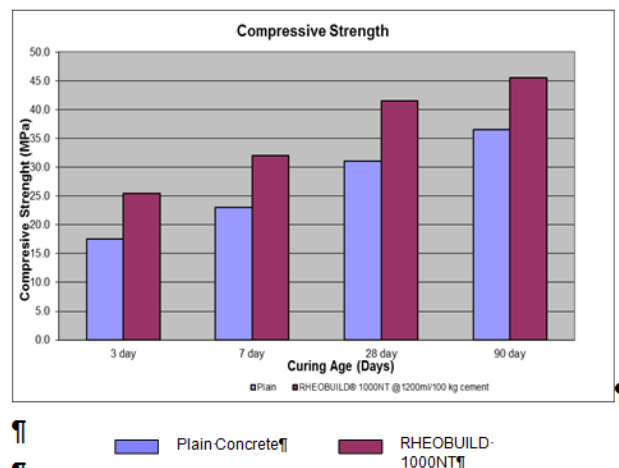
The addition of **MasterRheobuild 1000NT** allows mixing water to be reduced considerably and concrete strength to be accelerated significantly, particularly at early stages.

MasterRheobuild 1000NT provides high quality, rheoplastic, non-segregating concrete with:-

- shorter placing times
- reduced steam and ambient temperature curing
- increased strength at early ages
- high reliability
- high ultimate strength
- impermeability
- durability
- dimensional stability
- high elastic modulus
- low shrinkage and creep

Performance (as a High Range Water Reducer Retarder)

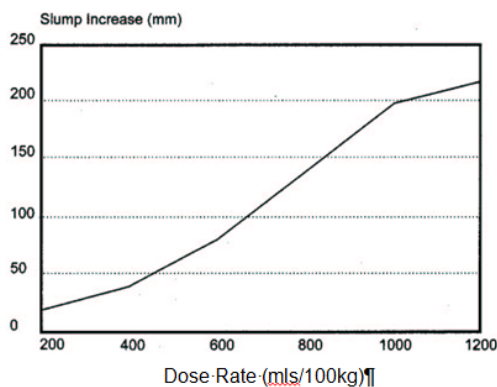
Example of the influence of **MasterRheobuild 1000NT** on concrete compressive strength when dosed at 1200mls/100kg of cement.



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Performance (as a Superplasticiser)



This graph can be used as a guide only.
 Actual dose rate will depend on types of cements,
 aggregates and temperatures.

Aggregate maximum size = 20mm
 Cementitious Content = 350kg/m³
 Initial slump = 40mm
 Temperature = 23°C

Dosage

MasterRheobuild 1000NT is normally dosed at 800 - 1500mls per 100kg of cementitious material. Other dosages may be used depending on the mix design of the concrete and ambient conditions. The actual dose depends on the degree of water reduction or flow required. Above 1000mls per 100kg cementitious material, extended retardation may be experienced.

Workability

MasterRheobuild 1000NT can maintain the workability of fresh concrete for a pre-determined time. The precise workability duration depends on temperature, types of cement and aggregates, transport and dosage of admixture. Higher dosages provide higher duration of workability of fresh concrete.

Dispensing

MasterRheobuild 1000NT can be added at the batch plant or on site. When adding at the batch plant, delay addition until the cement has been thoroughly wetted and at least 75% of the water has been added. When introduced on site, mix for further 2 minutes after addition.

Compatibility

MasterRheobuild 1000NT is compatible with both water-reducers and air-entraining agents approved under SAA, SANZ and ASTM specifications when used in concrete, but must be dispensed separately into the concrete mix. MasterRheobuild 1000NT should only be used in conjunction with water-reducing admixtures after specific test information is available at the dose rates proposed, otherwise extended retardation could result. MasterRheobuild 1000NT is not compatible with admixtures based on polycarboxylate technology, such as MasterGlenium SKY 8379, MasterGlenium SKY 8703.

Packaging

MasterRheobuild 1000NT in bulk & 1000 litre pallecons.

Storage & Shelf Life

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing. Protect from direct sunlight. Protect from temperatures below: 5 °C. The packed product must be protected from temperatures below the indicated one.

MasterRheobuild 1000NT has a shelf life of 24 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.

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Disclaimer

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STATEMENT OF RESPONSIBILITY

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