

MasterPozzolith RT 300

Polymer admixture for improving concrete

Material Description

MasterPozzolith RT 300 is a ready-to-use liquid admixture for making better, more uniform and more predictably high quality concrete. It retards the setting time to facilitate placing and finishing. Concrete meeting architectural, structural and construction requirements is obtained more dependably and economically with **MasterPozzolith RT 300**. **MasterPozzolith RT 300** meets and exceeds the requirements of AS1478 Type WRR and ASTM C 494 Type B and D admixtures.

Areas of Application

MasterPozzolith RT 300 admixture is recommended for use in all types of concrete where retardation of set and improved performance (particularly improved pumpability) are required or desired.

MasterPozzolith RT 300 admixture improves pumped concrete, shotcrete (wet mix) and conventionally placed concrete; it improves plain, reinforced, precast, prestressed, lightweight or standard weight concrete. It can be used in white or coloured concrete. **MasterPozzolith RT 300** can be used with air-entraining agents approved under AS 1478 Specifications when air-entrained concrete is specified or desired. While **MasterPozzolith RT 300** entrains negligible air, it improves the efficiency of most air-entraining admixtures and will generally result in the need for less air-entraining admixture.

Air-entraining admixture **MasterAir** is recommended for use with **MasterPozzolith RT 300** admixture when air-entrained concrete is specified or desired. When used in conjunction with another admixture each admixture must be dispensed separately into the mix.

Characteristics and Benefits

MasterPozzolith RT 300 admixture aids in the production of concrete with these special qualities.

- Mild to extended retardation - depending on dosage
- Greater pumpability
- Superior finishing characteristics for slabwork and off-form surfaces

- Reduced water content for a given consistency
- Increased strength - compressive, flexural and bond of concrete to steel
- Greater economy in a mix designed for a given strength, slump and air content
- Minimum cracking
- Easier placement - economy in placement
- Greater durability
- Reduced segregation, particularly in lean mixes and high slump concrete
- Slipformed concrete

Quantity to Use

MasterPozzolith RT 300 is used at the rate of 250 ± 50 ml per 100kg cement. Similar dose rates may be used with blended cements.

Rate of Hardening

The temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement, air, etc.) affect the rate of hardening of the concrete. At higher temperatures concrete hardens more rapidly and may impose problems with placing and finishing of concrete. By varying the dosage of **MasterPozzolith RT 300**, concrete with a more desirable rate of hardening characteristic can be obtained.

Ambient Temperature °C	Recommended Dose Range mls per 100kg		
	Characteristic strength MPa		
	20-25	30-35	40+
20-25	200	250	300
30-35	250	300	350
40+	300	350	400

Since setting time is also influenced by the chemical and physical composition of the basic ingredients of the concrete, trial mixes should be made with the job materials approximating job conditions to determine the dosage required for a given degree of retardation.

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Compressive Strength

In comparison to plain concrete, a mix containing **MasterPozzolith RT 300** develops higher early and ultimate strengths, exceeding the strength requirements of AS 1478 and ASTM C 494.

Packaging

MasterPozzolith RT 300 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. Store protected against freezing. Protect from direct sunlight. Protect from temperatures below: 0 °C. The packed product must be protected from temperatures below the indicated one.

MasterPozzolith RT 300 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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