

MULTIEXELSET 922

Cement Admixture for Accelerating and Plasticizing Shotcrete and Concrete

Specification Type

ASTM C494 Types C & E, Inst. Bautechnik Type BE

Description

MULTIEXELSET 922, a chloride-free accelerator for shotcrete and concrete which has been formulated to meet the requirements where no chloride or nitrate ions are allowed. It can be used for work in low temperature conditions. The reactive components rapidly combine, even at low temperature, with the cement paste to accelerate the hardening time of the shotcrete / concrete.

Typical Applications

Shotcrete in tunneling

* In reinforced concrete

* Quicker re-use of shutters allowing earlier stripping in formed or moulded concrete

* An admixture used with Ordinary Portland Cement as an alternative to using Rapid Hardening Portland Cement.

* In concrete for repairs to floor slabs, roads and runways

* In cold weather concreting

Advantages

* Quick setting admixture for sprayed material

* No added chloride

* Quick support of tunnel arch sections

* Increases strength gain

* Thicker applications of shotcrete made possible without fallout

* Increased bond strength

* Enables concreting to take place in low temperatures

* Increased resistance to freeze/ thaw cycles

* When added to shotcrete or concrete, reduces the water content of the mix for a given workability and the active chemical ingredients are thoroughly dispersed throughout the mix

Typical Properties

Colour:	1.4
Chloride Content:	10° C to 90° C
Nitrate Content:	5° C to 35° C
Storage Life:	99%+-1%
Dosage:	Use as supplied
Flashpoint:	1.5 hours at 20°C

Directions for Use

*MULTIEXELSET 922 must be added to a dry mix only. However, if the shotcrete material is to be mixed in the wet state, then it must be dissolved into the water and fed through at the nozzle. The product can be used with all types of Portland Cement including Sulphate Resisting. For use with other special cements, contact MCC LIMPOPO

MULTIEXELSET 922 should not be premixed with other admixtures. If other admixtures are to be used in concrete containing MULTIEXELSET 922 they must be dispensed separately. Consult MCC LIMPOPO

Curing

It is essential to cure all concrete in order to achieve design strength and reduce moisture loss. Cure with MULTICURE CURING COMPOUND.

Packaging

Supplied in 25kg bags and must be stored in a dry environment

Specification Clause

Where indicated use MULTIEXELSET 922, a high performance chloride free accelerator and plasticizer for concrete as manufactured by MCVC LIMPOPO to the following specification: MULTIEXELSET 922 is to be used in all concrete (indicate) at a dosage range of 2,5kg per 100kg of cement strictly in accordance with the manufacturer's instructions.

Quality Assurance

MCC LIMPOPO's production and testing programme comply with all local and international standards. These stringent testing requirements must also comply with ASTM C494 C&E, Inst, Bautechnik Type BE Performance Specification for Concrete and Shotcrete Admixtures.

Updates

This data sheet supersedes all previous issues prior to this date: 31/05/97.