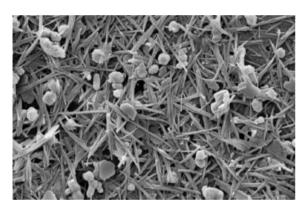


MasterMatrix 220

Rheology modifying additive for concrete and shotcrete

Material Description

MasterMatrix 220 is an innovative additive that modifies rheology in a wide variety of concrete products and cement based applications. MasterMatrix 220 is an ultra-fine mineral based powder containing bundles of sub-micron particles. When well dispersed in wet cementitious materials, the particles interact to form a network that entraps liquid and smaller cementitious particles and keeps larger particles suspended as shown below.



MasterMatrix 220 meets AS I 478.I - 2000 Type SN and chloride free.

Areas of Application

MasterMatrix 220 is recommended for use in a variety of applications requiring rheology modification and control such as:

- Tremie concrete for piles & diaphragm walls
- Super Workable Concrete & Self Compacting Concrete
- Shotcrete
- Precast concrete
- Manufactured concrete products (blocks, pavers & retaining walls)
- Underwater concrete
- Mortar and grouts
- Geopolymer concrete

Characteristics and Benefits

- Reduces potential for segregation
- Improves paste quality, cohesion & rheology
- Imparts some anti-washout properties
- Improves pumpability of concrete & grouts
- Reduces shotcrete rebound
- Improves surface consolidation & finish

MasterMatrix 220 may affect water content, target slump and admixture dosage, depending upon temperature and their proportions. Lab and field trials should be conducted to achieve desired performance.

Properties

Measurement Example

Aspect	Grey-creamish**	
Specific Gravity	2.4	
pH (Deionised Water)	9.8	
Chloride Content	No added chlorides	

^{**} Color may vary slightly. However, this does not change the efficacy and product performance

Dosage

The standard recommended dosage range of **MasterMatrix 220** is typically between 0.5 - 1.5 kg per m3, but can be increased or reduced depending on the specific application. The optimum dosage rate in such instances should be determined by correctly conducting trials using materials and conditions of use under the supervision of a Master Builders Solutions Technical Sales Representative.

Compatability

MasterMatrix 220 is compatible with all Master Builders Solutions water reducers, mid-range water reducers, high range water reducers, set retarders, accelerators and slump retainers.



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Packaging

MasterMatrix 220 is packaged in 1.5 kg water soluble bags (12 in a box). Can be supplied in bulk bags — contact your local Master Builder Solutions Technical Sales Representative.

Storage & Shelf Life

MasterMatrix 220 has a shelf life of approximately 12 months when stored in a cool dry environment.

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

			MasterMatrix-220-ANZ-V5-0723
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