

MasterAir[®] 720

Air-entraining admixture for concrete

MATERIAL DESCRIPTION

MasterAir 720 is an air-entraining admixture which creates ultra-stable air bubbles that are strong, small and closely spaced.

RECOMMENDED USES

Entraining controlled air content in a wide range of concrete types:

- Low slump concrete
- Flowable concrete
- High temperature concrete
- Concrete with extended working times
- Lightweight and pre-stressed concrete
- Imparting workability to lean harsh mixes
- Reducing bleeding caused by grading deficiencies in the concrete materials

FEATURE AND BENEFITS

The use of MasterAir 720 to entrain optimum air content in concrete results in the following improvements in concrete quality:

- Improved ability to entrain and retain air in concrete
- Improved air-void system in harden concrete
- Reduced permeability - increased watertightness
- Improved plasticity and workability
- Reduced segregation and bleeding
- Increased freeze / thaw resistance
- Increased resistance to scaling
- Greatly improved stability of air entrainment

PERFORMANCE TEST DATA

Aspect	:	Pink free flowing liquid
Relative Density	:	1.020 ± 0.01 at 25°C
pH	:	> 6 at 25°C
Chloride ion content	:	< 0.2%

TEST CERTIFICATION / APPROVALS

- ASTM C 260
- EN 934-2 : T5

DOSAGE

Optimum dosage of MasterAir 720 should be determined in trial mixes. As a guide, a dosage range of 40ml to 400ml per 100kg of cementitious material is recommended. As a starting point use 100ml / 100kg of cement and adjust in the light of results obtained.

APPLICATION

MasterAir 720 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of MasterAir 720 to dry aggregate or cement is not recommended.

SUGGESTED SPECIFICATION

The air entrainer for concrete shall be MasterAir 720, pink free flowing liquid formulation free of lignosulphonate and naphthalene polymers. The product shall have specific gravity less than 1.05 and shall comply with ASTM C260 as air entrainer.

PACKAGING

MasterAir 720 is supplied in 20 kg carboy and 210 kg drums and bulk delivery as appropriate

STORAGE / SHELF LIFE

MasterAir 720 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local MASTER BUILDERS SOLUTIONS representative.

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PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on MASTER BUILDERS SOLUTIONS construction chemicals web site.

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