

MasterSet AC 42

Formerly: POZZOLITH® 42

Hardener accelerator for normal concrete. In cold climates it can be used as “anti-freeze” admixture.

DESCRIPTION AND WHERE TO USE

MasterSet AC 42 is a liquid accelerating water-reducing admixture based on sulfonate synthetic polymers.

MasterSet AC 42 accelerates the reaction between water and cement especially at early ages.

Cement hydration of cement occurs more rapidly, and positively influences the rate of strength development particularly in cold weather.

MasterSet AC 42 is not chloride free, meets UNI EN 934-2 UNI EN 480 (1-2), UNI 10765, ASTM C 494-92 requirements for Type E and it is also compatible with all cements meeting the UNI EN 197-1 and ASTM standards.

BENEFITS

MasterSet AC 42 benefit:

- Accelerates initial and final setting times.
- Significantly increased compressive strength at early ages especially in cold weather.
- Protects concrete from first frost.

COMPATIBILITY

MasterSet AC 42 is compatible with all types of Portland, pozzolanic and slag cement.

- The combined use of MasterSet AC 42 and MasterAir is advised when concrete is exposed to a freeze and thawing cycles (following UNI EN 206-1).

- MasterSet AC 42 can be used in combination with MasterRheobuild and MasterGlenium series. This combination will allow for a further reduction in mixing water.
- In cold weather, whenever hardening of concrete must be accelerated, it is advisable that MasterRheobuild and MasterGlenium admixtures be used, together with MasterSet AC 42, to reduce mixing water rather than to plasticizer concrete mixes.
- Each admixture must be added separately to the mix.

DIRECTIONS FOR USE

MasterSet AC 42 is a ready to use liquid admixture that is introduced into the mixer together with mixing water. The plasticizing effect or water reduction is higher if the admixture is added to the damp concrete after 80-90% of the mixing water has been added.

The addition of MasterSet AC 42 to dry aggregate or cement is not recommended. In cold weather aggregates must not be frozen and formworks must be free from ice or snow.

MasterSet AC 42 must not be used in prestressed concrete. In such circumstances MasterSet AC 50CF is recommended.

Technical Information	
Form	Liquid, brown
Relative density (g/ml at 20°C)	1.096 – 1.156



The Chemical Company

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DOSAGE

MasterSet AC 42 is normally used at the rate of 1 to 2% by weight of cement.

Other dosage may be used, depending on job conditions.

PACKAGING AND STORAGE

MasterSet AC 42 is supplied in 10 liter cans, 208 liter drums, 1.000 liter containers and in bulk.

MasterSet AC 42 must be stored in a place where temperature does not drop below -10°C. If product has frozen, thaw at +20°C and agitate until completely reconstituted.

From 16/12/1992 BASF Construction Chemicals Italia Spa operates under the Quality System in compliance with European Standard UNI-EN ISO 9001. The environmental management system of BASF Construction Chemicals Italia Spa is certified accordingly to UNI EN ISO 14001 and the System of Safety Management is certified accordingly to OHSAS 18001. Environment sustainability: Partner Green Building Council since 2009.

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For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

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Supersedes all prior issues on this product.

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