POZZOLITH® 102

Accelerating and high early strength admixture

DESCRIPTION

POZZOLITH 102 is a ready-to-use liquid admixture formulated to accelerate the setting time of concrete under any conditions and to produce high-early strength in special application concrete.

RECOMMENDED FOR

POZZOLITH 102 is recommended for concrete requiring faster setting times and strength (compressive and flexural) gain in any temperature conditions. **POZZOLITH 102** is ideally suited for highway repair applications and cold weather slab work where chlorides are not restricted.

Note: **POZZOLITH 102** does contain added calcium chloride. Should restrictions on chloride contents apply, contact your local BASF Technical Sales Representative to determine the levels of chlorides present for particular dose rates of **POZZOLITH 102**.

FEATURES AND BENEFITS

Concrete with **POZZOLITH 102** admixture has a significantly faster setting time than plain concrete. Increasing the dosage rate increases set acceleration.

Both the compressive and the flexural strengths of concrete with **POZZOLITH 102** develop more rapidly than with plain concrete. **POZZOLITH 102** can be used to achieve 28 day strength results in as little as 3 days.

Benefits to concrete construction and to the manufacture of concrete products because of this earlier setting and strength gain include:

- earlier finishing of slabwork
- more efficient scheduling, generally faster construction and earlier occupancy
- earlier stripping and reuse of forms
- earlier use of concrete structure

APPLICATION

POZZOLITH 102 can be used with air-entraining admixture and other BASF admixtures to achieve cost-effective customised concrete performance. However, admixtures should be added separately to initial batching water to ensure complete distribution throughout the mix. **POZZOLITH 102** should not be used in conjunction with other admixtures supplied by other manufacturers unless specific test information is available.

DOSAGE

POZZOLITH 102 is used at dose rates up to 4 litres per 100kg of cementitious binder. The dosage rate is dependent on the ambient concrete temperatures, cement chemistry and the amount of acceleration required.

The degree of set-acceleration increases with dose rates, allowing the concrete producer to control the setting rate of his product.

Typically, each litre of **POZZOLITH 102** used per 100kg of cement will accelerate setting times by an additional 1 hour at moderate temperatures. Higher doses will be needed to maintain the same set acceleration under winter conditions.

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

PACKAGING

POZZOLITH 102 is available in sealed 205 litre drums and bulk delivery.

SHELF LIFE

POZZOLITH 102 can be stored in either fibreglass or mild steel tanks. Steel tanks may be lined with epoxide systems, urethane or vinyl. Aluminium is subject to corrosion and is not recommended.

Bronze valves are recommended, however, steel is satisfactory under air free conditions. Yellow brass is unsuitable.

Note: Corrosion of unlined steel tanks will occur if the tanks are not kept full of calcium chloride.

PRECAUTIONS

Under certain conditions resistance to corrosion of reinforcement is impaired, so use of the product is not recommended in:

- pre-tension concrete
- marine environments
- reinforced concrete with inadequate cover

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF **Material Safety Data Sheet (MSDS**) from our office or our website.

BASF
The Chemical Company

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