

Plastit® SPNA

Accelerating, High Range Water Reducing Admixture

Uses

- As an accelerator for use in concrete and cement mortars to promote rapid strength development for early stripping of formwork, and to assist in resisting of frost attack, ideal for cold winter working conditions
- Specifically developed for use in high quality concrete for workability retention at low water content
- Provides good pumpable concrete

Advantages

- Allows continuous placing of concrete at low temperatures
- High range water reducing property allows the production of high quality concrete without excessive cement contents-ensures improved durability.
- Gives anti-frost protection by allowing water reducing thus accelerating cement hydration process
- Allows earlier release from precast moulds
- Allows reduction in mixing water with no loss of workability
- Increased density and compressive strength
- Chloride free, safe for use in precast, prestressed and reinforced concrete.

Standards compliance

Plastit SPNA complies with BS5075 part1 and ASTM C494.

Description

Plastit SPNA supplied as a brown liquid, is selected sulphonated naphthalene polymers, which when added to cementitious mixes, accelerates hydration and enables the water content to perform more efficiently.

Typical dosage

The optimum dosage of Plastit SPNA to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

For normal concrete a dosage between 0.4% to 2.0% by weight of cement may be used.

Properties

Appearance	Brown Liquid
Specific gravity	1.18 gr/cm ³ at 20°C
Chloride	Nil to BS5075
Air entrainment	Typically less than 2% additional air is entrained at normal dosages.
Alkali content	Typically less than 55.0 g. Na ₂ O equivalent/litre of admixture. A fact sheet on this subject is available.

Instructions for use

Compatibility:

Plastit SPNA is compatible with other CAPCO admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The performance of concrete

containing more than one admixture should be assessed by trial mixes.

Plastit SPNA is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

Dispensing:

The correct quantity of Plastit SPNA should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

Packaging

Plastit SPNA is available in 20 kg containers and 240 kg drums.

Storage

Plastit SPNA has a minimum shelf life of 12 months provided the temperature is kept within the range of 5°C to 35°C. Should the temperature of the product fall outside this range then contact CAPCO for advice.

Freezing point: Approximately -2°C

Precautions

Health and safety:

Plastit SPNA does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire:

Plastit SPNA is non-flammable.