

Struplast[®] N321

Plasticizing Admixture

Note:

Struplast[®] R321: Set Retarding Type of Struplast N321

Struplast[®] A321: Set Accelerating Type of Struplast N321

Uses

- Specifically developed for use in high quality concrete for workability retention at low water content.
- Provides good pumpable concrete
- Recommended for piling and mass concrete pours with improved cohesion.

Advantages

- High range water reducing property allows the production of high quality concrete without excessive cement contents-ensures improved durability.
- Improved cohesion and particle dispersion minimizes segregation and bleeding and improves pumpability.
- Chloride free, safe for use in precast, prestressed and reinforced concrete.

Standards compliance

Struplast N321 conforms with BSEN 934-2, BS 5075 Part 3 and with ASTM C494 as Type A and Type F, depending on dosage used.

Description

Struplast N321 is a chloride free, super plasticizing admixture based on specially selected and blended synthetic polymers. It is supplied as a brown solution which instantly disperses in water. Struplast N321 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively. The very high levels of water reduction possible allow major increases in strength to be obtained.

Typical dosage

The optimum dosage of Struplast N321 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 0.3% to 0.9% by weight of cement may be used.

Properties

Appearance	Brown Liquid
Specific gravity	1.09 ± 0.02 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 5.0 g. Na ₂ O equivalent/litre of admixture. A fact sheet on this subject is available.

Instructions for use

Compatibility:

Struplast N321 is compatible with other STRUMIX 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.

Struplast N321 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 Struplast N321 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

Struplast N321 is available in 20 kg containers, 240 kg drums and 1100 kg IBC tank.

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Storage

Struplast N321 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 STRUMIX for advice.

Freezing point: Approximately -2°C

Precautions***Health and safety:***

Struplast N321 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:

Struplast N321 is non-flammable.

