

# Plastit® SPL1

## Superplasticising Admixture

### 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

Plastit SPL1 conforms with BSEN 934-2, BS 5075 Part 3 and with ASTM C494 as Type A and Type F, depending on dosage used.

### Description

Plastit SPL1 is a chloride free, superplasticising admixture based on specially selected and blended synthetic polymers. It is supplied as a brown solution which instantly disperses in water. Plastit SPL1 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 Plastit SPL1 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 0.8% by weight of cement may be used.

### Properties

Appearance	Brown Liquid
Specific gravity	1.16 gr/cm <sup>3</sup> 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 <sub>2</sub> O equivalent/litre of admixture. A fact sheet on this subject is available.

### Instructions for use

#### Compatibility:

Plastit SPL1 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 SPL1 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 SPL1 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 SPL1 is available in 20 kg containers and 240 kg drums.

### Storage

Plastit SPL1 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 SPL1 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 SPL1 is non-flammable.