

# Plastit® WPL

## Concrete and Mortar Integral Waterproofing Admixture, Liquid

### Uses

- As an integral waterproofer for:
- Structural and precast concrete
  - Sand : Cement renders
  - Floor screeds
  - Mortars and Plasters

### Advantages

- Allows a reduction in mix water content to be made without affecting workability, so reducing permeability.
- Provides integral protection, ensuring reduced permeability throughout the concrete and mortars.
- Integral protection is maintained even if surface damage occurs.
- Lower water: cement ratio improves compressive strength at the same workability.

### Description

Plastit WPL is water based Admixture and is supplied as a white liquid emulsion. Plastit WPL is a multipurpose, concentrated liquid polymer for making modified concrete, mortars, screed and render with better performance, improved mechanical properties and lower penetration against water, chloride and some typical chemicals.

### Typical dosage

The optimum dosage of Plastit WPL to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimization of admixture dosage and mix design and provides a complete assessment of the mix. As a guide, an addition rate of 2% to 4% by weight of cement.

### Properties

Appearance	White Liquid
Chloride	Nil to BS5075

### Instructions for use

#### Compatibility:

Plastit WPL is compatible with other Capco admixtures used in the same concrete mix. All admixtures should be added to the mix separately and must not be mixed together prior to addition. The resultant properties of mixes containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet. Plastit WPL is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS and microsilica.

#### Dispensing:

The correct quantity of Plastit WPL should be measured by means of a suitably accurate device; and then added to the concrete during the mixing process either by hand, or mechanically.

#### Curing:

As with all structural concrete and sand : cement mixes, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray, wet Hessian or a Capcure O spray applied curing membrane should be used.

#### Limitations

The use of Plastit WPL will not make poor quality concrete waterproof. Good concrete practice must be followed at all times. Well graded aggregates must be used and a minimum cement content of 300kg/m<sup>3</sup> is usually recommended. Adequate waterstops must be provided between lifts of concrete and floor bays.

It is recommended that this product be used with Suitable concrete Plasticizers.

#### Packaging

Plastit WPL is available in 20 kg containers.

#### Storage

Plastit WPL has a minimum shelf life of 6 months at 35°C if kept in a dry store in the original, unopened packs. The shelf life will be reduced at higher ambient temperatures.

#### Precautions

##### Health and safety:

Plastit WPL is mildly alkaline and should not come into contact with skin and eyes. Avoid inhalation of dust during mixing. Gloves, goggles and dust mask should be worn. If contact with skin occurs, wash with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

##### Fire:

Plastit WPL is non-flammable.