

## Plastocrete®-77 W

Pore-blocking integral admixture with hydrophobic properties for watertight concrete production

### Product Description

Plastocrete®-77 W is an integral admixture which greatly reduces the water absorption of concrete through its pore-blocking and hydrophobic actions. The incorporation of Plastocrete®-77 W in the concrete mix ensures its beneficial effects are distributed throughout the matrix, thus enhancing durability.

### Uses

Plastocrete®-77 W is recommended for use in the production of watertight concrete for:

*Water-retaining structures, e.g:*

- Reservoirs and water tanks
- Waste-water treatment plants
- Dams
- Swimming pools
- Containment bunds
- Sewers and pipelines

*Waterproof facilities and structures, e.g:*

- Basements
- Parking garages
- Underground stations
- Utility vaults
- Tunnels
- Marine structures
- Foundations, piles and pile caps

### Characteristics / Advantages

Plastocrete®-77 W has the following properties:

- Very low water absorption providing watertightness and increased durability
- Chloride free
- Ammonia free
- Compatible with other Sika admixtures
- Compatible with most finishes

### Product Data

#### Form

**Appearance / Colour** Amber liquid

**Packaging** 20 litre pails and 200 litre drums

#### Storage

**Storage Conditions / Shelf Life** 12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C. Keep away from direct sunlight.



## System Information

### Typical Mix Design / Results

- Minimum binder content 380 kg/m<sup>3</sup> (including PFA or GGBFS)
- Maximum W/C ratio 0.43.
- Final mix should be cohesive and easily compacted without bleed or segregation.
- Plastocrete<sup>®</sup>-77 W will have no significant water reducing or slump keeping properties.
- Plastocrete<sup>®</sup>-77 W is suitable for use in conjunction with all normally used retarders, plasticizers and superplasticisers.

## Application Details

### Dosage

Plastocrete<sup>®</sup>-77 W is dosed at a recommended dosage of 1.5 – 2.0 litres per 100 kg cement. However, the optimum dosage to meet project requirements must be determined through trial mixes.

Plastocrete<sup>®</sup>-77 W is compatible with all types of Portland cement including Sulphate Resistant Cement (SRC) and blended cements.

## Application Instructions

### Dispensing

Plastocrete<sup>®</sup>-77 W liquid should be dispensed directly into the mixing water prior to addition of other concrete components such as coarse aggregate, sand and cement. Ensure mixing water is potable and free from contaminants.

Preliminary trials are recommended if Plastocrete<sup>®</sup>-77 W is dispensed together with other admixtures.

### Notes on Application / Limitations

The standard rules of good concreting practice concerning production, placing and curing are to be observed. Please refer to relevant standards.

### Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available upon request) containing physical, ecological, toxicological and other safety-related data.

## Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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