

# FASTSET CONCRETE

## Product Codes

DH57 Packaging listed overleaf.

## Description

Fastset Concrete is a single pre-mixed Portland cement based non-shrink concrete suitable for thick section placing where rapid early strength gain is required.

Fastset Concrete may be used for the support of road ironwork and highway furniture, barriers and stanchion posts. The mixed concrete, when placed, will harden in approximately 10 minutes. The compressive strength gain will reach 20N/mm<sup>2</sup> within 2 hour allowing early opening of roads to vehicular traffic.

The self-contained product only needs to be mixed with water on site and the rapid setting assists the re-bedding of road ironwork and the setting in of new systems. The product is chloride free and can be safely used with cast iron and steel units. The concrete can be placed in sections of 20mm to 200mm in thickness. Greater thicknesses can be built up in layers. After placement no special curing is required in moderate ambient conditions.

**Uses include:**

- Installation of road ironwork.
- Support of road furniture.
- Placing of stanchion posts.
- Roadway rapid repairs.

## Typical Concrete Properties @ 20°C

### Compressive Strength

Water addition: 2.75 litres per 25kg of Fastset Concrete

| 2 Hour                  | 1 Day                   | 7 Days                  | 28 Days                 |
|-------------------------|-------------------------|-------------------------|-------------------------|
| 22<br>N/mm <sup>2</sup> | 35<br>N/mm <sup>2</sup> | 45<br>N/mm <sup>2</sup> | 55<br>N/mm <sup>2</sup> |

Variations in water content for particular applications may alter concrete consistency and compressive strength achieved.

Density 2250 kg/m<sup>3</sup>.

Coefficient of Thermal Expansion 11 x 10<sup>-6</sup>/°C

## Specification Outline

Bedding and support sections shall be carried out using

Fastset Concrete as manufactured by Tecroc Products Ltd. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The company's quality system conforms to BS EN ISO 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

## Standards

Fastset Concrete has been tested in accordance with appropriate parts of BS 1881.

## Instructions For Use

### Preparation

Laitance and all loose material including dust, oil and grease should be removed in order to produce a sound substrate. The work area should be pre-wetted taking care to remove any standing water before placing the Fastset Concrete.

### Mixing

To achieve the most consistent concrete mix, mechanical mixing is recommended. Hand mixing is suitable but care should be taken to ensure that the mix is fully wetted out without the use of excess water. Mechanical mixing may be carried out in a suitable vessel using a slow speed high torque drill and Concrete Stirrer. Thorough hand mixing may be carried out using a clean spot board or wheelbarrow. Each 25kg bag of Fastset Concrete requires 2.5 to 3.0 litres of water to give a medium workability concrete consistency. Excess water should not be added. Once setting of the concrete has commenced, further mixing should not be used to re-work the mix.

The concrete should be placed within approximately 10 minutes of mixing. The working time may be extended in cold ambient conditions and may be slightly shortened in hot ambient conditions. For cold weather working warm mixing water at up to 30°C may be used.

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# FASTSET CONCRETE

## Instructions For Use

### Placing

Mixed Fastset Concrete should be placed onto the dampened prepared surface as soon as mixing is complete. Once placed fully compact the concrete to obtain maximum strength development. The bed thickness applied in a single application should be between 20mm to 200mm. Thicker support beds can be achieved by applying further material as soon as the lower bed has hardened sufficiently not to distort under the additional work.

The placed concrete will have hardened sufficiently to carry out further work within some 20 minutes depending on the surrounding ambient conditions.

### Curing

No special curing is required at temperatures between 5°C and 35°C. For placing at temperatures outside this range contact the Technical Service Department.

## Precautions

### Health and Safety

Fastset Concrete is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.

Full health and safety details are given in Product Safety Data Sheet.

### Fire

Fastset Concrete is non-flammable

## Yield

The volume yield of each 25kg bag of Fastset Concrete is approximately 12 litres.

## STORAGE AND SHELF LIFE

Fastset Concrete will have a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures and high humidity may reduce the shelf life.

## PACKAGING AND ORDERING

Fastset Concrete is supplied in:

25kg valvesack bags      Product Code DH57

For further information and sales please contact your local TecRoc Products Office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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