

TECHNICAL DATA

Revision Date 01/2008

TECFAST CONCRETE

Product Codes

TP98 Packaging listed overleaf.

Description

Tecfast Concrete is a single pre-mixed Portland cement based non- shrink concrete designed with selected graded silica aggregates and polymer reinforcement. The mixed product may be placed in sections of 20mm up to 650mm in a single pour.

Tecfast Concrete is suitable for all concrete works where early strength development is required in order to allow early use of the placed sections. The product may be used for localised repairs plus large area placement or re-instatement of concrete pavements.

The mixed concrete, when placed, will harden in approximately 20 minutes. The compressive strength gain will reach 22N/mm² within 2 hours allowing early opening of sections to foot and vehicular traffic. The self-contained product only needs to be mixed with water on site. The product is chloride free and can be safely used in contact with steel reinforcement. After placement no special curing is required in moderate ambient conditions. Protection should be undertaken in rapid drying conditions, expected rain or frost.

- Uses include:**
- Concrete repairs to accept foot and vehicular traffic
 - Placing to form new pavement areas
 - Re-instatement of deteriorated pavement areas
 - Rapid repairs to roadway & runway
 - Structural support situations

Specification Outline

Bedding and support sections shall be carried out using Tecfast 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 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

Typical Concrete Properties @ 20°C

Compressive Strength

Water addition: 2.25 litres per 25kg of Tecfast Concrete

1 Hour	2 Hours	1 Day	7 Days	28 Days
15N/mm ₂	22N/mm ₂	35N/mm ²	45N/mm ₂	54N/mm ₂

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

Density 2350 kg/m³.

Working Time 15 minutes

Standards

Tecfast 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 Tecfast Concrete.

Mixing

To achieve the most consistent concrete mix, mechanical mixing using a forced action mixer such as the Cretangle is recommended. Small mixes may be made using a slow speed high torque drill and Mortar Stirrer.

Each 25kg bag of Tecfast Concrete requires 2.25 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 15 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.

Part bag mixing should not be undertaken.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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TECFAST CONCRETE

Instructions For Use

Placing

Mixed Tecfast 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 650mm.

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. At early ages do not allow placed concrete to rapidly dry and protect from rain and frost.

Precautions

Health and Safety

Tecfast 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

Tecfast Concrete is non-flammable

Yield

The volume yield of each 25kg bag of Tecfast Concrete is approximately 11.5 litres.

Storage and Shelf Life

Tecfast Concrete will have a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 35°C. Storage at higher temperatures or high humidity may reduce the shelf life.

Packaging and Ordering

Tecfast Concrete is supplied in:

25kg valvesack bags Product Code TP98

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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