CS CONCRETE FINE

Description
CS Concrete Fine is an aggregated Portland cement based product giving high strength, good flow and non-shrink properties. The maximum size aggregate is 3mm which enables sections of 50mm to 150mm to be placed.
Placed flowing concrete gives structural support and good vibration resistance. CS Concrete Fine is chloride free and can be safely used in contact with steel. The specialised mix design enables placement at low water content leading to good freeze-thaw stability, low water absorption plus resistance to oil, sea water and mild alkali attack.
CS Concrete Fine can be machine or hand mixed and may be placed by pouring under gravity or pumped into place. The placed material is volume stable due to the shrinkage compensating mix design. Rapid gain in strength enables early opening for work of concreted sections.

Uses include:
- Stanchion bases
- Machine bed plates
- Crane rail tracks
- Pipework supports
- Thick bed sections placed by flowing concrete
- Thin bed sections placed by pumping

Typical Concrete Properties @ 20°C

<table>
<thead>
<tr>
<th>Property</th>
<th>1 Day</th>
<th>3 Days</th>
<th>7 Days</th>
<th>28 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>40N/mm²</td>
<td>48N/mm²</td>
<td>57N/mm²</td>
<td>68N/mm²</td>
</tr>
</tbody>
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Flexural Strength 10N/mm² @ 28 days
Density 2300 kg/m³
Coefficient of Thermal Expansion 11 x 10⁻⁶/℃
Youngs Modulus 30kN/mm²

Setting Times
- Initial : 260 minutes
- Final : 290 minutes

Specification Outline
Support concreting should be carried out using CS Concrete Fine as manufactured by Tecroc Products Ltd. The product should 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
CS Concrete Fine has been tested in accordance with the appropriate parts of the following standards:
B.S.1881, B.S.4550, A.S.T.M.C1107, A.S.T.M.C953

Instructions For Use
Preparation
Remove laitance and all loose material including dust, oil and grease to achieve a sound substrate. Formwork should be erected and made grout-tight. The formwork must be designed with sufficient hydrostatic head to ensure adequate flow into and across the work area. Saturate the work area with water, leave for 1 hour and then blow out any surplus water.

Mixing
Pour 3.0 to 3.50 litres of clean water into the mixing vessel for each 25kg bag of CS Concrete Fine. Slowly add the CS Concrete Fine to the water whilst continually mixing. Mechanical mixing is preferable using either a high torque slow speed drill with a Grout Stirrer or a grout mixer set on a slow speed. (High speed mixing may cause thixotropy leading to loss of flow).
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Placing
CS Concrete Fine should be placed within 20 minutes of mixing. Continuous placing is important, pouring from one side of the formwork until the flowing concrete appears at the opposite side of the work area. Do not disturb once concreting has been completed until concrete has hardened. Section thicknesses of between 75mm and 150mm may be placed. Within the section dimensions 50mm to 150mm small areas down to 10mm will be acceptable. CS Concrete Fine may be placed at temperatures between 5°C and 45°C. For placing at temperatures outside this range contact the Technical Service Department.

Curing
Placed concrete, which is exposed, should be cured in accordance with good concrete practice including water spray and spray applied curing membrane.

PRECAUTIONS

Health and Safety
CS Concrete Fine 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 data are given in Product Safety Data Sheet.

Fire
CS Concrete Fine is non-flammable

YIELD
Each 25kg bag will yield approximately 12.5 litres of mixed material.

STORAGE AND SHELF LIFE
CS Concrete Fine will have a storage life of 12 months in unopened bags when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.

PACKAGING AND ORDERING
CS Concrete Fine is supplied in:
25kg valvesack bags  Product Code TG09
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.