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TECHNICAL DATA SHEET TDS125
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CEMGROUT EF

DESCRIPTION

CEMGROUT EF is a high strength, pre-mixed, chloride free, cementitious pourable grout. It contains selected cements, non-reactive aggregates and additives, to provide shrinkage compensation, frost resistance, and shock and vibration resistance.

CEMGROUT EF is ideally suited for use in the following applications:-

- Bridge bearing pad plinths.
- Grouting under machinery base plates, stanchion bases, and crane rails etc.
- Anchoring holding down bolts, tie bars, stressing cables etc.
- Concrete repairs
- Underpinning.

ADVANTAGES

NON-SHRINK

Ensures effective contact and support.

DURABILITY

High strength combined with uniform, dense structure.

HIGH FLOW

Can be pumped or poured into gap widths down to 5 mm.

HIGH EARLY STRENGTH

Rapid installation and early use of plant

Complies with DOT 2601 for bedding mortars.

PACKAGING

CEMGROUT EF is supplied in 25 kg multi-ply valve sacks.

PRODUCT DATA

Appearance:	Grey granular powder
Bulk Density Wet Density	1550 kg /m ³ 2200 kg / m ³
Compressive strength BS1881 Part 116 24 Hours 3 Days 7 Days 28Days	30 N/mm ² 42 N/mm ² 51 N/mm ² 67 N/mm ²
Tensile Strength BS6319 Pt 7	3.5N/mm ²
Flexural Strength BS631 9 Pt 3	8.5N/mm ²
Youngs Modulus BS6319 Pt 6	28 x 10 ³ N/mm ²
Minimum application thickness	5mm
Flow by Colcrete Flow Trough: Initial Flow After 25 minutes	570mm 500mm
Flow by Marsh Flow Cone (12.5mm orifice)	Typical value 54 seconds
Initial Set Final Set	3 hours 5 hours
Coverage	22.0 kg per m ² at 10 mm thick
Yield: Std Water Addition 4.5 - 5 litre per 25Kg bag	13.5 litre per 25Kg bag
Application Temperature Service Temperature	+ 4°C to + 40°C -20°C to + 200°C

METHOD OF USE

Surface Preparation

All surfaces must be clean and sound. Remove all surface laitence by acid etching or grinding, also dust and debris. All surfaces should be thoroughly wetted 6 - 24 hours before starting and be in a moist condition during placing. Any free surface water must be removed before application.

Mixing

For optimum results a high shear paddle or vane grout mixer should be used. Colloidal impeller mixers are not suitable for use with this product. Air entrainment should be avoided.

For large or continuous placement ensure that adequate mixing capacity and sufficient labour is available. A holding tank fitted with agitation may be used.

Add the correct amount of water for the required consistency to the mixer and then add the complete pack(s) slowly while mixing. Mix for a further 3 - 4 minutes until smooth and cohesive. Allow to stand for 1 minute before use. Re-mix and use immediately.

Application

Underplate:

Ensure sufficient material is available to complete the work and obtain a continuous fill. Pour from one side only to avoid air entrapment, keeping a head on the grout to promote flow. DO NOT vibrate but rods, straps and chains can be used to aid complete filling. A high gravity feed may also be used.

Due to the natural expansion of CEMGROUT during curing, some crazing of the surface may occur in unrestrained areas. These should therefore be kept to a minimum.

Grouting large volumes:

CEMGROUT EF may be used upto 75 mm thick sections. Above this the addition of clean, graded 10 mm aggregates at up to one to one by weight is recommended. In this instance normal concrete mixers and pumps may be used.

We endeavour to ensure that any advice, recommendation or Information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our product is used and it is therefore important that the end user satisfy himself by prior testing that the product is suitable for his specific application and that the actual conditions of use are suitable. Accordingly no responsibility can be accepted or any warranty given by ourselves, our representatives, agents or distributors, other than that the product as supplied by us will meet our written specification. Products are sold subject to our standard conditions of sale and each purchaser and end user should at all times ensure that he has consulted our latest product instructions and safety Information.



Pumping:

CEMGROUT EF may be placed using piston, ram or diaphragm type grout pumps fitted with ball valves.

In all cases, ensure maximum restraint is maintained, otherwise compressive strength will be reduced.

Curing

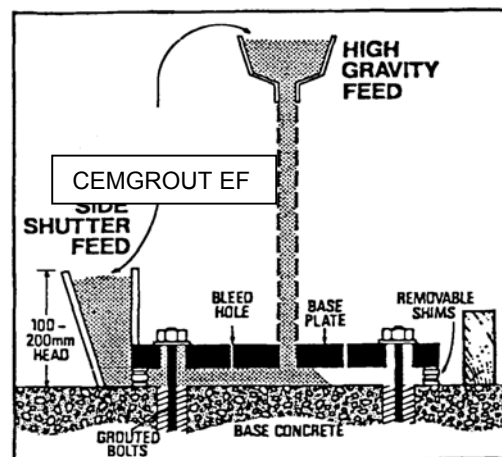
Good curing is essential on all exposed surfaces particularly in dry, sunny conditions. Failure to do so will reduce bond, strength and durability. Immediately after finishing, apply 1 coat of SEALOCURE AC to all exposed surfaces. Alternative methods are water ponding, mist spraying etc, but in all cases these must be maintained for at least 7 days. Keep the grout above 5°C at all times during application and cure.

STORAGE

This product must be stored in a dry place, free from moisture contact. CEMGROUT EF has a shelf life of 6 months

HANDLING

CEMGROUT EF is non-hazardous, but work cleanly and wear protective clothing. Remove splashes from skin with water and in case of eye contact wash copiously with water. If irritation persists seek immediate medical attention. For further information refer to the relevant Health and Safety Data Sheet.



CEMGROUT EF can be applied by EITHER a high gravity feed OR side shutter feed.