

Product Data Sheet

CEMROK/EASI-FLOW/CG

CONSTRUCTION AND INSTALLATION GROUTS

Description

(D.o.T. Highways Spec:- 2601 Compliant)

Cemrok/Easi-Flow/CG is a non shrink, high strength cementitious grout comprising of low alkali high specific surface area Portland cements and other cementitious binders combined with high purity aggregates and a system of compatible admixtures to achieve high in service performance.

This grout has high flow characteristics to achieve penetration and levelling with no bleed and zero shrinkage when placed at 0.22 water solid ratio.

Uses

Cemrok/Easi-Flow/CG has been specifically designed for anchor or base plate grouting, under machinery and stanchion plates, grouting rails and bridge bearings, fixing bolts, parapet rails etc. It can also be used in its plastic state as a bedding mortar.

Key Properties.

- Equivalent Sodium Oxide is less than 3.0kg/m³.
- High ultimate strength.
- Shrinkage compensated.
- Can be used for grouting sections up to 100mm thick.
- Chloride free.
- High fluidity – can be pumped or poured.

Yield

The approximate yield of mixed grout per tonne of dry powder is 0.61m³. The approximate quantity of dry powder required to produce 1m³ of set grout is 1.65 tonnes. This equates to 15.2 litres per 25kg of dry powder. These figures do not allow for site wastage.

Mixing Instructions

The grout should be mixed using water that complies with BS EN 1008 (as for concrete).

It should be mixed in a suitable container using either an electric (1kW) or pneumatic power tool. Larger amounts can be mixed in a FORCED ACTION paddle mixer.

25kg of the grout powder should be added carefully to 5.5 litres of water, progressively mixing until a fluid grout consistency is achieved.

When mixing as a mortar, reduce the water content to around 3.25 litres per 25kg of powder to achieve a suitable consistency.

Small quantities can be mixed by hand, care being taken to accurately measure the water.

Once mixed, the material must not be reworked.

NB. Due to the rapid setting times the material should be placed immediately after mixing.

Typical Performance – Fluid state

Compressive Strength (N/mm ²)	
1 days	13-15
3 days	33-35
7 days	38-40
28 days	48-50 Typical
Flexural Strength (N/mm ²)	
1 days	3-3.5
3 days	5-5.5
7 days	5.75-6.25
28 days	6.75-7.25
Expansion Results (%)	
1 day	0.003
3 day	0.003
Water/Solid ratio	0.22
Pot Life	Approximately 45 mins (Can vary with temperature). (Results derived from specimens produced at 0.22 water/solids ratio at 20°C).
Flow Characteristics	A typical flow-channel figure for Cemrok/Easi-Flow/CG would be in the range of 500mm. (The quoted set and flow characteristics are dependent on temperature and type and duration of mixing. Temperatures higher or lower than 20°C for example, will result in reduced or extended setting times).

Typical Performance – Mortar consistency

Compressive Strength (N/mm ²)	
1 days	43-45
7 days	65-68
28 days	84-87
WSR	0.13

Application and placing

Cemrok/Easi-Flow/CG can either be poured or pumped into position. Due to the relatively short pot life, pumped operations must be executed quickly particularly in warm weather conditions.

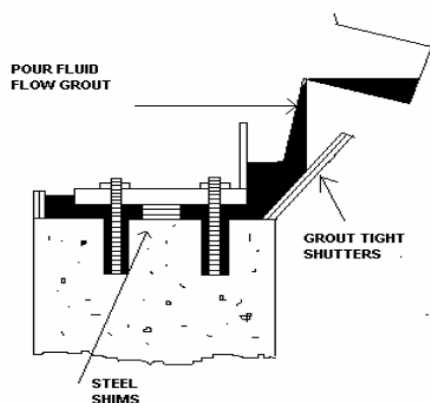
For best results the grout should be placed immediately on completion of mixing. Ensure all surfaces with which the grout will come into contact are clean and dust free. Ideally, concrete substrates should be thoroughly soaked for several hours prior to the grout being applied to reduce suction.

Permeable concrete should be treated with a suitable concrete primer such as **Acrylic Primer**. Shutters must be impermeable to the passage of water and both strong enough and sufficiently supported to contain the placed grout. When gravity placed, sufficient hydrostatic head must be given and grout volume maintained to enable the material to flow completely through the void to be filled from one side of shutter only. A minimum 50mm head is recommended. Immediately prior to placement all excess water should be removed. Any grout exposed to wind or drying conditions should be suitably protected, preferably by coating with a wax-free Curing Agent.

Any grout that is likely to be subject to low temperature immediately after placing or during its early strength development should be protected by covering with hessian or other insulative material. For concreting in cold weather reference should be made to BS8110 Pt. 1 Section 6.

See Figure 1 for shutter detail for pouring **Cemrok/Easi-Flow/CG**

Figure 1. Grout shutter detail



Quality Control

All Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001

Clean up and Spillages

Dry powders should be swept up and disposed of in accordance with the Local Authority.

Packaging and Storage

Cemrok/Easi-Flow/CG is available in nominal 25kg sacks, palletised and shrink wrapped. **Cemrok/Easi-Flow/CG** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised **Cemrok/Easi-Flow/CG** should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis.

Shelf life is 6 months in paper bags and 12 months in plastic bags (from the date shown on the bag), subject to correct storage conditions.

Information, prices & ordering

For technical information, pricing and to place orders contact our **Sales Office on the following:**

Telephone: **08444 630046** Fax: **08443 099703**

Email: **pozament@tarmac.co.uk**

Visit our website: **www.pozament.co.uk**

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Swains Park Industrial Estate, Park Road,
Overseal, Swadlincote, Derbyshire DE12 6JT.

Health & Safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children