

DB7 Star High Flow Grout

DESCRIPTION (1 Day Compressive Strength 15N/mm²)

DB7 Star Grout is a blend of low alkali high specific surface portland cements and other cementitious binders combined with high purity aggregates and a system of compatible admixtures. DB7 Grout is a high fluidity grout that will neither bleed or shrink.

USES

DB7 Grout has been specifically designed for anchor or baseplate grouting, under machinery and stanchion plates, grouting rails and bridge bearings, fixing bolts parapet rails etc.

KEY PROPERTIES

- Cement content > 950kg/m³
- Equivalent sodium oxide less than 3.0Kg/m³.
- Contains no chlorides.
- Shrinkage compensated in both the plastic and hardened states.
- Can be used for grouting sections up to 100mm thick.
- Complies with Highway Spec 2601 for cementitious bedding mortars.

TYPICAL PERFORMANCE

Compressive Strength (N/mm²)

1 day	15.0
7 day	40.0
28 day	65.0 (Typical)
90 day	70.0

Flexural Strengths (N/mm²)

1 day	3.0
7 day	6.0
28 day	8.0

Expansion Results (%)

1 day	0.003
3 day	0.003

Setting Times:

Approximately 4 hours Initial

Approximately 6 hours Final

Water 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 DB7 Grout would be in the range of 500mm.

(The quoted set and flow characteristics are dependant on temperatures higher or lower than 20, for example, will result in reduced or extended setting times).

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YIELD

The approximate yield of mixed grout per tonne of dry powder is 0.64m³.

The approximate quantity of dry powder required to produce 1m³ of set grout is 1.55 tonnes.

16.0 Litres of grout is produced from 25kg of powder.

These figures do not allow for site wastage/error.

MIXING INSTRUCTIONS

DB7 Grout should be mixed using water which complies with BS EN 1008 (as for concrete). DB7 Grout should be mixed in a suitable container using either an electric (1Kw) or pneumatic power tool. Larger amounts can be mixed with a forced action paddle mixer.

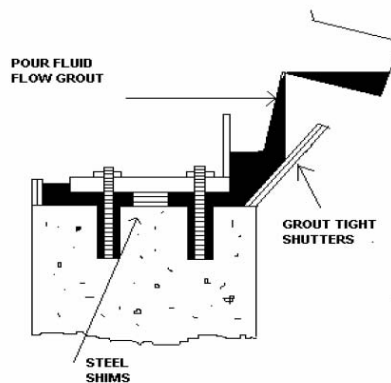
25kg of the grout powder should be added to 7.0 litres of water,

progressively mixing until a fluid grout consistency is achieved.

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

Once mixed, the material must not be re-worked.

FIGURE 1. GROUT SHUTTER DETAIL



PLACING

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 **Instacem Primer Latex**.

Shutters must be impermeable to the passage of water and both strong enough and sufficiently supported to contain the placed grout. Sufficient hydrostatic head must be given and maintained to the material to enable it to flow completely through the void to be filled.

Immediately prior to placement all excess water should be removed.

Any grout exposed to wind, drying conditions or low temperatures should be suitably protected, preferably by coating with **Instacure** curing agent.

PACKAGING AND STORAGE

DB7 Grout is available in 25kg paper sacks.

DB7 Grout should be stored in cool dry areas clear of the ground sheeted or pallets high. The product should be used on a first in – first out basis.

Shelf life is minimum 3 months but could be in excess of 6 months subject to temperature and humidity.