

Febgrout Universal

High Precision Flowable Grout

- To fill gaps in concrete from 10mm to 100mm
- Chloride free – non corrosive, shrinkage compensated
- For bridge bearings, stanchion base plates & machine bedding

Colour	Product Code	Pack Size	Box Qty
Grey	FEBGROUT25	25KG	1



Concrete Repair & Speciality Mortars

Product Description

FEBGROUT UNIVERSAL is a ready to use, non-shrink construction grout. It can be used as fluid or plastic consistencies for grouting of equipment and machinery, bearing pads, rails and anchoring.

Typical uses

FEBGROUT UNIVERSAL is recommended for:

- Grouting bearing pads and plinths/Grouting under machinery base plates, stanchion bases and crane rails.
- Anchoring bolts, reinforcing bars and rods/Underpinning.

Features & Benefits

- Non shrink for effective contact and support with high early strength for rapid installation and use of plant.
- Durable, uniform dense structure with good workability into gap widths of down to 5mm for up to 1 hour at 20°C.

Instructions for Use

Surface Preparation

All surfaces must be clean and sound. Remove all surface laitance. Wet surfaces 6 – 24 hours before starting and keep in a moist condition during placing.

Mixing

Air entrainment should be avoided. 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.

Strength Development: The strength of the grout is dependent on the amount of mixing water, temperature of the object grouted, curing and age of hardened grout.

Application

Under plates: 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.

Grouting large volumes: FEBGROUT UNIVERSAL may be used up to 75mm thick sections. Above this the addition of clean, graded 10mm aggregates at up to one to one by weight is recommended. In this instance normal concrete mixers and pumps may be used.

Pumping: FEBGROUT UNIVERSAL 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.

Placing

Restrained areas: FEBGROUT UNIVERSAL should be placed in the flowable state utilising straight pouring or pumping techniques to place a bedding mortar under bearing plates. Note that unrestrained areas around baseplates should always be kept to a minimum (<150mm).

Unrestrained areas: Even with good curing, unrestrained areas of grout, for example around baseplates, may exhibit drying shrinkage cracking some time after placement. This is not detrimental

to the performance of the grout where it is restrained under the plate or bearing, but may affect the cosmetic appearance of the application.

Curing

Good curing is essential. Immediately after finishing apply 1 coat of FEBCURE SUPERCLEAR 181 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.

Coverage

25Kg of FEBGROUT UNIVERSAL mixed with 4.5 litres of water produces approximately 13.4 litres (0.0134 m³) of grout. (Approximately 75 x 25Kg bags per m³), using more or less water to meet consistency requirements, will increase or decrease the yield accordingly

Storage

Store in cool dry conditions away from direct sunlight and at ambient temperatures.

Shelf Life

6 months from date of manufacture when stored as directed.

Performance Data

Specification	
Joint Depth	Complies to specification for "Highway Works" Clause 2601 (DOT)
Workability @ 20°C	5mm minimum, 75mm maximum
Setting time (initial) @ 20°C	approx 2 hours
Final set @ 20°C (trafficable)	approx 8 hours
Minimum application temp	approx 12 hours
Density (wet)	+1°C (when mixed as directed above)
Expansion characteristics (ASTM C87)	2160kg/m³
Chloride ion content (BS1881 Part 124)	0.35%-1.1% (unrestrained)
Cement content (BS4551)	<0.002% w/w
	44.3% w/w

Febgrout Universal