

General-purpose, 'non-shrink'
cementitious grout

webercem grout eco



About this product

webercem grout eco is a premixed, non-shrink cementitious grout developed for applications where a cost-efficient grout with adequate flow and strength is required. **webercem grout eco** is designed primarily as a pourable grout but can also be used at a plastic or dry pack consistency.

Complies with BS EN 1504-3 AND -6.

Technical data

Performance to BS EN 1504-3

Performance characteristic	Method	BS EN 1504-3 R4 requirement	Result
Compressive strength	EN 12190	$\geq 45 \text{ N/mm}^2$	51 N/mm ²
Chloride ion content	EN 1015-17	$< 0.05\%$	0.01%
Adhesive bond	EN 1542	$\geq 2.0 \text{ N/mm}^2$	Pass

Performance to BS EN 1504-6

Performance characteristic	Method	BS EN 1504-6 R4 requirement	Result
Pull out	EN 1881	$< 0.6 \text{ mm displacement at } 75 \text{ kN}$	0.1 mm displacement at 75 kN

Other intended uses

Performance characteristic	Method	BS EN 1504-6 R4 requirement	Result
Freeze/thaw	EN 13687-1	$\geq 2.0 \text{ N/mm}^2$ after 50 cycles	Pass

Uses

- Grouting under stanchions and baseplates
- General void filling, under paving, in rubble walls etc.
- Fixing ballustrades, starter bars and barriers
- Underpinning

Constraints

webercem grout eco must only be used in confined situations, e.g. under baseplates, in holes etc.

Features and benefits

- ▲ General purpose grout suitable for use over a temperature range of between 5°C and 25°C.
- ▲ Can be pumped, poured, trowelled or 'dry-packed'.
- ▲ Good flow properties.
- ▲ Can be applied in thicknesses ranging from 10 mm to 100 mm.
- ▲ Factory blended to eliminate on-site errors.
- ▲ Complies with BS EN 1504-3 and -6.

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Preparation

All surfaces should be clean and sound. Concrete surfaces must be free from any contamination including oil, grease, laitance and dust – and for maximum bond the surface should be roughened and pre-soaked with clean water.

Immediately prior to grouting, remove surface water including that in bolt holes or recesses.

Metal surfaces must be free from rust, scale, oil or grease but removable metal shims should be lightly oiled.

Bolt holes must be blown free of dust, water or any loose material.

Formwork should be well sealed to prevent leakage.

Mixing

Mixing and placement can be carried out between +5°C and +25°C. In service, **webercem grout eco** will perform similarly to other cementitious mixes based on Portland cement in the temperature range of –20°C to +150°C.

Mixing should be carried out in a proprietary grout mixer or by using a medium speed drill (650 rpm) with an MR4-type helical attachment.

Do not use more than the maximum stated water addition.

Water addition

To obtain the consistency appropriate for a particular application, use the water addition detailed opposite.

	Water addition (litres)	Yield (litres)
Dry-pack mortar	2.5 to 2.75	13.75
Pourable	3 to 3.4	14
Flowable	3.8 to 4.25	14.5

Application

When pouring, the area to be grouted should be shuttered and a header box used to maintain a grout head of 150 – 200 mm during the pour.

Machine mixing is recommended to achieve continuous pouring. For large applications **webercem grout eco** should be placed by pump, having been formulated to give a 30 minute working time.

Continuous grout flow is essential and sufficient grout and water should be available to be mixed to ensure there is no disruption during placement.

Where the thickness of grout is 100 – 200 mm, the grout may be bulked out with clean, single-sized aggregate by mixing in up to 10 kg of a 6 mm rounded aggregate per 25 kg bag. However, other **Weber** products are available, which may be more suitable. Please contact our Customer Services Department for details.

Avoid leaving unconfined areas of grout proud around bearings etc.

The grout around the edges of baseplates must be finished flush with the sides by cutting the grout while still green after stripping formwork.

Cracking may result in areas where there is no restraint.

Packaging

webercem grout eco is supplied in 25 kg polythene lined bags.

Yield

See *Water addition*.

Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture. If stored longer, setting times will increase.

Health and safety

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

For further information, please request the Material Safety Data Sheet for this product.

Technical services

Weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline
Tel: 08703 330 070
e-mail: technical@netweber.co.uk

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

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