

webercem grout

General-purpose, shrinkage compensated cementitious grout

- Flowable
- Suitable for stanchions and base plates
- Can be pumped, poured or trowelled

About this product

webercem grout is a premixed, shrinkage compensated cementitious grout developed for applications where a cost-efficient grout with good flow and strength is required. **webercem grout** is designed primarily as a pourable grout but can also be used at a plastic consistency.

Complies with BS EN 1504-3 and BS EN 1504-6.

Features and benefits

- General purpose grout suitable for use over a temperature range of between 5°C and 25°C
- Can be pumped, poured or trowelled
- 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 BS EN 1504-6

Uses

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



APPLICATION
DEPTH



MEETS
BS EN 1504-3 and 6
AS AN R4 MORTAR



INITIAL SET



CEMENT REPLACEMENT
TECHNOLOGY



WATER
ADDITION



FLOWABLE
YIELD



Constraints

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

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.

Ensure bolt holes are free from 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.

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 below:

	Water addition (litres)	Approx. yield (litres)
Pourable	3.0 - 3.4	14.0
Flowable	3.8 - 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** should be placed by pump.

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 greater than 100 mm, use **webercem advanced repair concrete**. This will impact the performance properties of the material and the user should satisfy themselves that the material is still fit for purpose.

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 curing after stripping formwork.

Cracking may result in areas where there is no restraint.

Cleaning

Clean all brushes and tools with water immediately after use.

Packaging

webercem grout 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, product performance may differ.

Health and safety

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

Technical data

These results were obtained under laboratory conditions. Batch to batch results may fluctuate due to common cause variation.

EN1504			
All tests carried out at 20°C unless otherwise stated			
Performance characteristic	Method	Requirement	Pass/Fail
Compressive strength	EN 12190	≥45 MPa	Pass
Chloride ion content	EN 1015-17	≤0.05%	Pass
Adhesive bond	EN 1542	≥2.0 MPa	Pass
Carbonation resistance	EN 13295	dk ≤ control concrete (1.3)	Pass
Elastic modulus	EN 13412	≥20 GPa	Pass
Thermal compatibility Part 1 Freeze-thaw	EN 13687-1	Bond strength after 50 cycles ≥2.0 MPa	Pass
Capillary absorption	EN 13057	≤0.5 kgm ⁻² h ^{-0.5}	Pass
Pull-out	EN 1881	Displacement ≤ 0.6 mm at 75 kN	Pass
Reaction to fire	EN 13501-1	Declared class	Class A1
Coefficient of thermal expansion	EN 1770	Declared value	6 x 10 ⁻⁶ /°C

ASTM C 1107-17			
All tests carried out at 20°C unless otherwise stated			
Performance characteristic	Method	Requirement	Pass/Fail
Change in height at early ages of cylindrical specimens of cementitious mixtures	ASTM C827-16	≥0.0 - ≤4%	Pass
Changes in height of cylindrical specimens of hydraulic-cement grout	ASTM C1090-15	≥0.0 - ≤+0.3%	Pass
1 day compressive strength of hydraulic cement mortars (using 50mm cube specimens)	ASTM C109-20a	≥7.0 MPa	Pass
3 day compressive strength of hydraulic cement mortars (using 50mm cube specimens)	ASTM C109-20a	≥17.0 MPa	Pass
7 day compressive strength of hydraulic cement mortars (using 50mm cube specimens)	ASTM C109-20a	≥24.0 MPa	Pass
28 day compressive strength of hydraulic cement mortars (using 50mm cube specimens)	ASTM C109-20a	≥34.0 MPa	Pass

Additional test data		
All tests carried out at max. water addition of 4.25 litres at 20°C unless otherwise stated		
Performance characteristic	Method	Result
Tensile strength of hardened mortar	BS 6319-7	3.2 MPa
Flexural strength	EN 12190	5.1 MPa

Indicative strength gain				
All tests carried out at max. water addition of 4.25 litres in laboratory conditions				
Temperature	24 hours	3 days	7 days	28 days
Compressive strength @ 5°C	0.00 MPa	14.00 MPa	28.78 MPa	51.18 MPa
Compressive strength @ 10°C	3.73 MPa	15.70 MPa	31.40 MPa	41.22 MPa
Compressive strength @ 20°C	16.35 MPa	29.32 MPa	35.25 MPa	52.87 MPa

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy themselves by reviewing the Weber technical data sheet along with prior testing that the product is suitable for their specific application with approval from a competent structural engineer/designer. No responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that they have consulted our latest literature.

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