

Polymer-modified, two-component cementitious mortar producing a grey, waterproof coating

weber.cem brushcoat

multifix brushcoat



Uses

weber.cem brushcoat can be used for external and internal repair work and protection from the elements on the following concrete structures:

- Water tanks
- Bridges
- Sea walls (not subject to abrasion)
- Balconies
- Basements
- Retaining walls

Constraints

Suitable for use on plain and reinforced concrete, or dense rendered substrates subject to positive water pressure only.

Not suitable for trafficked areas.

About this product

weber.cem brushcoat is a two-component, SBR Latex modified, flexible cementitious coating for brush, spray or roller application. It is formulated as a protective, levelling coating to cover non-structural surface defects in new and old concrete.

Technical data

Mixed density	1900 kg/m ²
Working time	> 45 minutes at 20°C
Bond to repair mortars (7d)	1.75 N/mm ²
Compressive strength	3 days 12 N/mm ²
	7 days 18 N/mm ²
	28 days 25 N/mm ²
Flexural strength	7 days 7.0 N/mm ²
	28 days 10 N/mm ²
Tensile strength	7 days 2.5 N/mm ²
	28 days 3.7 N/mm ²
Modulus of elasticity	15 kN/mm ² (compression), 19 kN/mm ² (flexural)
Elongation	30%
Water pressure resistance (positive)	> 5 bar (no leakage in 24 hours)
ISAT (BS1881) (control concrete 0.26 ml/m ² sec)	No water penetration
Water absorption (BS368) (control concrete 3.03%)	0.2%
Coefficient of linear thermal expansion	18 x 10 ⁻⁶ /°C
Freeze-thaw resistance (cycled -20°C and +20°C: 25 times)	No degradation or loss of bond
Thermal resistance (cycled +20°C and +60°C: 25 times)	No degradation or loss of bond
Water vapour transmission rate	35 g m ⁻² day ⁻¹
Equivalent air layer thickness (recommended criterion for water vapour release is maximum of 4 metres)	0.6 metres at 1.4 mm layer
Carbon dioxide transmission rate	0.77 g m ⁻² day ⁻¹
Equivalent air layer thickness (recommended criterion for CO ₂ barrier is minimum of 50 metres)	53 metres at 1.4 mm layer thickness

Features and benefits

- ▲ Can be applied easily by spray, by brush or by roller
- ▲ Easy to finish
- ▲ Deformable
- ▲ Resists dimensional changes in the substrate
- ▲ Durable
- ▲ Waterproof
- ▲ Does not crack or craze when applied and cured
- ▲ Permeable to water vapour
- ▲ Non-flammable

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Preparation

All substrates must be sound, free of any contamination including laitance, paints, coatings, oil, grease and dust.

Concrete surfaces must be adequately prepared by grit blasting, high pressure water jetting, needle gunning or other appropriate means.

Old concrete surfaces contaminated with oil or grease require suitable preparation. New concrete must be fully cured for at least 14 days. Do not use a permanent curing membrane.

Defects such as honeycombing, leaks, pinholes, cracks and particular items such as sealing joints, sealing pipes through walls and concrete patch repairs should be treated as recommended in the Specification prior to the application of **weber.cem brushcoat**.

Pores and small cavities in concrete surfaces should be raked out where the mortar is loose, saturated with water and filled flush with **weber.cem fairing coat**.

Thoroughly dampen the area with clean water before applying **weber.cem brushcoat** but ensure all surface water is removed.

Mixing

Pour all the contents of the liquid component into the pail supplied. Add all the powder component slowly while mixing using a paddle and a slow-speed drill at a speed not exceeding 500rpm for 3 minutes to a smooth and homogenous consistency.

Do not add extra water.

For larger volumes, use a Putzmeister P11 or similar machine. Machine mix the mortar for at least 5 minutes.

Application

Hand application

Use a stiff bristle brush or roller to apply a first coat of **weber.cem brushcoat** over the surface at a minimum rate of 2 kg/m², spreading out evenly and ensuring full overlap between applications. Leave to dry.

Apply the second coat at a rate of 1.5 to 2 kg/m² at right angles to the first coat to ensure a pinhole-free coating. The second coat should be applied after about 6 to 12 hours but not later than 24 hours (at 20°C).

Machine application

Use a Putzmeister P11, Spray Boy TS3 with 8 mm nozzle or similar machine. Apply the mixed **weber.cem brushcoat** by spray pump to the required thickness (max 2 mm in one pass). Apply the second layer after 6 to 12 hours or as soon as the first layer is firm enough to support it.

Application conditions

Temperature range of application: +5°C to +35°C, and protected from direct sunlight. Do not apply on frozen surfaces or when frost is expected within 24 hours. Do not apply in direct sunlight or on hot substrates. When applying in confined or close spaces, ensure sufficient ventilation to prevent condensation.

Finishing

Leave with an 'as sprayed' or a brushed finish or finish off with a damp sponge or a float for a smooth surface.

Cleaning

Clean tools with water before **weber.cem brushcoat** has set.

Packaging

weber.cem brushcoat is supplied in a 20 kg plastic bucket containing one 15 kg bag of powder (Component A) and one 5 litre bottle of SBR Latex (Component B).

Coverage

Using 15 kg of Component A with 5 litres of Component B produces a yield of 10.8 litres, sufficient to cover 10 m² per 1 mm coat. Normally two coats are sufficient.

Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 6 months from date of manufacture.

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: (01525) 722110

Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. For UK sales enquiries and overseas projects, contact **Weber's** Sales office.

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