

Polymer-modified, cementitious bonding aid and steel reinforcement primer

weber.cem keycoat

multifix keycoat



About this product

weber.cem keycoat is a single-component polymer-modified, cementitious bonding aid and steel reinforcement primer. It requires only the addition of clean water to produce a bonding slurry for the **weber.cem** range of repair mortars, cementitious screeds, renders and new to old concrete.

The product contains migrating corrosion inhibitor to protect the steel reinforcement within the repair zone and reduce the rate of corrosion within the vicinity of the repair.

This product has been formulated to comply with the requirements of BS EN 1504-3.

Technical data

Mixed density	1.9 kg/litre
Typical coating thickness	0.5 – 1 mm
Pot life	30 – 60 minutes at 20°C
Bond strength to concrete EN 1542 adhesive bond test	1 – 2 N/mm ² dependent on substrate and repair mortar

For updated technical data contact Technical Services or download latest data sheet from our website.

Uses

- To act as a holding primer for steel reinforcement prior to the application of repair materials
- To enhance the bond of cementitious repair mortars, renders and screeds to concrete
- Bonds new to old concrete

Features and benefits

- ▲ High initial grab to improve the build of the repair mortar and promote the bond to the concrete
- ▲ This product has been formulated to comply with the requirements of BS EN 1504-3
- ▲ Excellent adhesion to steel reinforcement
- ▲ Contains migrating corrosion inhibitor to reduce the rate of corrosion within the vicinity of the repair
- ▲ Cementitious, contains no solvents
- ▲ Single-component; simply mix with water
- ▲ Agrément approved as part of the **weber.cem** Concrete Repair System



EU VOC regulations 2008

EU limit for weber.cem keycoat (cat A/g or j): g-50 g/l, j-140 g/l (2007)/g-50 g/l, j-140 g/l (2010). **weber.cem keycoat** contains <1 g/l VOC.

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Preparation

Surfaces must be clean and free from laitance, mould release oil and other surface coatings.

Thoroughly soak the concrete, preferably overnight, and remove all surface water prior to application.

Concrete

Concrete substrates must be adequately prepared either by use of a suitable mechanical method, such as scabbing, grit blasting or needle gunning, or by such other means as appropriate. Concrete bases for toppings must be carefully prepared to give a clean, freshly-exposed surface.

Old concrete surfaces contaminated with oil or grease require suitable preparation, such as steam cleaning, in conjunction with a suitable detergent. Care must be taken to ensure that the oil or grease is removed from the surface and not simply spread over a large area.

New concrete should be cured for at least 14 days using an approved curing technique e.g. polythene film. Spray-on curing membranes are unsuitable for use on substrates where **weber.cem** materials are to be used.

Steel substrates

Steel substrates should be cleaned by a grit blasting treatment to Swedish Standard Specification SA 2½ (equivalent to BS 7079-A1) immediately prior to bonding. However, in many instances where corrosion is absent, wire brushing to obtain a clean surface may be adequate.

Mixing

25 kg bag – up to 8 litres of water.

Mix **weber.cem keycoat** with the correct quantity of clean water by adding the powder to the water and stirring continuously until a brushable slurry consistency is obtained.

For small quantities, mix 3 parts **weber.cem keycoat** with 1 part clean water by volume.

Note: Mix only enough **weber.cem keycoat** to be applied to a given surface. In warm weather, quantities to be mixed need to be smaller. In cold weather do not apply when temperature is 5°C or is likely to fall below 5°C.

Application

To steel reinforcement

Apply one full, unbroken coat of **weber.cem keycoat**, ensuring the back of the cleaned reinforcing bars are coated.

To concrete substrate

Apply **weber.cem keycoat** to an area that can be covered with the appropriate mortar, screed etc, in 30 minutes.

After mixing, apply immediately to the prepared concrete surface (see *Preparation*).

Use a stiff brush to scrub the slurry well into the surface. Place the mortar on to the slurry while it is tacky.

In hot weather the slurry will dry quickly once it is applied and it is prudent to mix the mortar ready for application just prior to applying the slurry. If the bonding slurry dries prior to the application of the mortar, it must be removed mechanically and a further coat applied.

Packaging

weber.cem keycoat is supplied in 25 kg bags.

Coverage

Coverage is approximately 1 kg per 1 m².

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.

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
Fax: (01525) 718988

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.

Sales office

Tel: (01525) 722100
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