

Protective and anti-carbonation coatings

weber.cote clear and smooth

multicoat clear and smooth coatings



About this product

The **weber.cote clear and smooth coating** systems provide excellent anti-carbonation protection with a minimum 15 years life expectancy. **weber.cote smooth** is both protective and decorative, while **weber.cote clear** protects concrete surfaces without significantly altering their appearance.

All systems can be applied by brush, roller or spray.

These products have been formulated to comply with the requirements of BS EN 1504-2.

Technical data

Anti-carbonation test results

The permeability values μ CO₂ are:

weber.cote clear*	2.82 x 10 ⁶
weber.cote smooth*	2.07 x 10 ⁶

The μ CO₂ for good quality concrete is 400.

To protect concrete from carbonation, these coatings should be applied to clean, dry, sound substrates in a minimum two coat application to give a pinhole free surface. Porous or friable substrates should be treated with one coat of **weber.cote primer** prior to coating.

Water vapour diffusion

Both coatings are breathable, allowing moisture within the substrate to escape. Equivalent air layer thickness (max. 4 metres Klopfer)

weber.cote clear*	0.3 m
weber.cote smooth	0.9 m

*After 2000 hours weathering

Uses

- **weber.cote coatings** can be applied to most building materials, e.g.
 - concrete
 - blockwork
 - masonry
 - renders
- They are not recommended for common Fletton brickwork
- **weber.cote clear** is particularly suited to affording protection to exposed-aggregate, precast-concrete cladding panels
- **weber.cote smooth** may be applied to brickwork for decorative purposes

Features and benefits

- ▲ Excellent anti-carbonation coatings
- ▲ Durable – life expectancy in excess of 15 years
- ▲ Resistant to chloride ion ingress
- ▲ Coatings allow vapour diffusion
- ▲ These products have been formulated to comply with the requirements of BS EN 1504-2
- ▲ Agrément approved as part of the **weber.cem** Concrete Repair System



Colours

weber.cote clear is a colourless coating. **weber.cote smooth** coating is available in colours from the standard, premium and designer ranges. Specifiers should consult the Colour Charts, available from **Weber**, and whenever possible, obtain samples prior to specification.

EU VOC regulations 2008

EU limit for weber.cote clear (cat A/c): 75 g/l (2007)/40 g/l (2010). **weber.cote clear** contains <10 g/l VOC.

EU limit for weber.cote smooth (cat A/c): 75 g/l (2007)/40 g/l (2010). **weber.cote smooth** contains <35 g/l VOC.

weber.cote clear and smooth

Preparation

If considered necessary, substrates should be primed with **weber.cote primer**.

New surfaces should be clean, sound and dry. Concrete must be free of coatings or mould oil and any laitance should be removed, following which the surface can be primed with **weber.cote primer**.

Old surfaces must also be clean, sound and dry. Glossy surfaces should be roughened to provide a key. Lichen, moss or fungal growth must be removed and the areas treated with **weber CL150** applied in accordance with the instructions on the data sheet*.

Chalky or friable surfaces, or previously decorated surfaces which are flaking, should be wire-brushed to remove loose materials and then stabilised by one coat of **weber.cote primer**.

On rough surfaces, such as exposed aggregate panels, application of **weber.cote clear** is made easier if surfaces are primed with **weber.cote primer**, which should be allowed to dry before application of the first coat.

* Full data sheet available from **Weber** on request.

Application

For complete protection, a two-coat application by brush, roller or spray is recommended.

Apply **weber.cote smooth** at a minimum of 150 µm wet film thickness per coat and **weber.cote clear** at a minimum of 100 µm wet film thickness per coat.

Depending on drying conditions and surface suction, the **weber.cote clear and smooth coatings** may be given a second coat in as little as 2 to 4 hours.

Do not apply below 4°C, when frost is expected or during rainfall.

Coverage

Coverage will depend on type of surface and porosity. The following is a guide for brush or roller application.

For major contracts, we suggest a site trial is carried out to determine actual coverages. **Figures below are m² per litre per coat.**

	Smooth surface	Medium roughness	Rough-cast
weber.cote clear	4 to 6	3 to 5	2 to 3.5
weber.cote smooth	8 to 10	7 to 8	5 to 6
weber.cote primer	7 to 10	5 to 7	4 to 5

weber.cote coatings should be applied in two coats for full anti-carbonation protection to concrete.

For spray application allow 10 – 15% extra material.

Packaging

All **weber.cote** coatings are supplied in 15 litre plastic containers. **weber.cote primer** is supplied in 5 litre plastic containers.

Health and safety

Essentially non-hazardous.

Not harmful during normal use. After contact with skin, wash immediately with plenty of water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep out of the reach of children.

Storage and shelf life

Protect from frost. Store in clean, dry conditions between 5°C and 30°C. When stored in correct conditions a shelf life of 2 years can be expected.

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

Fire properties

weber.cote clear and smooth, when applied to a non-combustible substrate, have a Class 1 surface as defined in Approved Document B2/3/4 Appendix A, Clause A7 of the Building Regulations 1985.

The **weber.cem** concrete repair system has a Class 0 surface for fire propagation.

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.

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