

High-performance, elastomeric, anti-carbonation coating for external surfaces

weber.cote EC



About this product

weber.cote EC is a single-part aqueous exterior coating based on an acrylic elastomer to provide a high-build, protective, elastomeric and decorative finish to exposed concrete and other surfaces. This product has been formulated to comply with the requirements of BS EN 1504-2.

Technical data

Adhesion to concrete	BS EN 1542:1999	>2 N/mm ²	
Cross-cut test	EN ISO 2409	GT1 pass	
Adhesion after thunder shower cycling	BS EN 13687-2:2002	>2 N/mm ²	
Tensile strength	DIN 53504:1994	1.0 N/mm ²	
Elastic elongation at break at 20°C	DIN 53504:1994	>300%	
Permeability to carbon dioxide	BS EN 1062-6:2002	99 m	
Permeability to water vapour	BS EN ISO 7783-1 BS EN ISO 7783-2	0.31 Class 1 0.20 Class 1	
Permeability to liquid water	BS EN 1062-3:2008	0.06 kg/m ² h0.5	
Artificial weathering 2000 hours UV	BS EN 1062-11:2002	No change	
Diffusion of chloride ions	NT build 489	L = 59.1 mm	
Crack bridging of coating at 15°C	BS EN 1062-7:2004	Class B 4.1 no cracks	
No. of coats	Minimum 2 coats for at least 15 years life		
Dry film thickness (DFT)	Approx. 500 µm		
Static crack bridging (prEN 1062-7 Method B)	Up to 3.4 mm at 23°C Up to 2.8 mm at -10°C		
Dynamic crack bridging (prEN 1062-7 Method B)	Unaged: No failure after 1000 cycles at 23°C, -10°C, -20°C Aged for 2500 hours in QUV: no failure after 1000 cycles at 23°C and -10°C		
CO₂ resistance	Unaged	2000 hrs	5000 hrs
Mean flux (g m ⁻² day ⁻¹)			
D _{CO₂} (cm ² s ⁻¹)	6.5 x 10 ⁻⁷	7.5 x 10 ⁻⁷	5.75 x 10 ⁻⁷
µCO ₂	2.29 x 10 ⁵	2.00 x 10 ⁵	2.6 x 10 ⁵
R (m) air equivalence	134	113	147
Dry Film Thickness (µ)	520	566	566
Water vapour diffusion			
Transmission rate	18.06 g m ² day ⁻¹		
Equivalent Air Layer Thickness (SDH ₀)	1.65 m		
Fire Resistance	Approved Document B2/314 Appendix A, Clause A7 of the Building Regulations 1985		
Spread of Flame	Class 1		
Fire Propagation Index	0.3		

Uses

weber.cote EC is suitable for:

- Most external building surfaces except metals, plastics or common Fletton bricks
- Application to vertical and sloping concrete surfaces

Constraints

As **weber.cote EC** is cured by UV light, a longer cure period may be required on the interior of buildings. It should not be used on water-retaining structures or in situations where ponding of water will occur.

Features and benefits

- ▲ High-build: 0.5 mm in thickness, thicker than most other coatings. Better resistance to movement
- ▲ Will bridge static cracks up to 3 mm
- ▲ Very good dynamic crack bridging capability
- ▲ Excellent anti-carbonation coating
- ▲ Allows water vapour diffusion
- ▲ Available in a range of colours with good colour retention
- ▲ Durable – life expectancy in excess of 15 years
- ▲ This product has 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 EC is available in the 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 EC (cat A/c):
75 g/l (2007)/40 g/l (2010). **weber.cote EC** contains <30 g/l VOC.

weber.cote EC

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 coating such as 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** 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**.

Static cracks up to 3 mm wide can be covered with **weber.cote EC** – ensure material is brushed well into crack. Wider cracks should be filled with **weber.cem fairing coat** and allowed to dry, then spanned with a fabric mesh such as **mesh NT** prior to coating.

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

Application

It is recommended that the coating is well stirred prior to use. A two-coat application is required - apply by brush or long haired roller at a minimum of 400 µm wet film thickness per coat. **weber.cote EC** is designed as a thick coating material, do not brush or roller out, i.e. overspread. Allow to dry for at least 24 hours between coats. Nominal drying time approx. 4 hours at 20°C; full cure in 2 to 3 weeks.

weber.cote EC should be applied when ambient or surface temperatures are above 4°C. Do not apply below 4°C or when frost is expected.

Maintenance

weber.cote EC will require little maintenance. It can be washed down using clean water with a soft bristle brush. Re-coating should not be necessary for approximately 10 years, but can be carried out after thorough cleaning of the coating.

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 722137
Fax: 01525 718988

Coverage

Coverage of **weber.cote EC** will depend on the type of surface and its porosity but, as a general guide, a coverage of 2 m² per litre

per coat can be expected, i.e. 1 m² per litre for a two coat application. The following table gives approximate guidance:

	weber.cote EC (2 coats)	weber.cote primer (1 coat)
Smooth substrate	1 – 1.25 m ² per litre	7 – 10 m ² per litre
Fine textured substrate	1 m ² per litre	5 – 7 m ² per litre
Rough textured substrate	0.5 – 0.75 m ² per litre	4 – 5 m ² per litre

For any contracts, we suggest that a site trial is carried out to determine actual coverages on the types of surfaces being coated.

For spray application allow 10 – 15% extra material.

Cleaning

Clean brushes or roller in water immediately after use. If they become clogged, soak in very hot water containing a mild detergent.

Packaging

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

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. It is recommended that the coating be stirred well prior to use after it has been in storage for some time.

Fire properties

weber.cote EC, when applied to a non-combustible substrate, has a Class 1 surface.

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

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.

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

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.

England and Wales

Tel: 08703 330070
Fax: 01525 718988

Scotland, Northern Ireland, Isle of Man, Republic of Ireland

Tel: 028 9335 2999
Fax: 028 9332 3232

Saint-Gobain Weber Ltd

Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedford MK45 5BY, UK
Tel: 08703 330070 Fax: (01525) 718988 e-mail: mail@netweber.co.uk
www.netweber.co.uk

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 himself by prior testing that the product is suitable for his specific application, and 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 he has consulted our latest literature.