

Protective anti-carbonation coating for concrete

PRODUCT

webercote beton is an anti-carbonation protective coating for exposed concrete and resistant to chloride penetration with good permeability to water vapor diffusion.

The elastometric nature of **webercote beton** ensures good crack bridging properties.

TYPICAL USES

Where new and existing concrete and masonry structures require protection from carbon dioxide, sulphur dioxide, oxides of nitrogen, chlorides, sulphates and UV radiation. Examples: car parks, commercial and industrial buildings, bridges, subways, beach resorts, high rise flats, etc.

ADVANTAGES

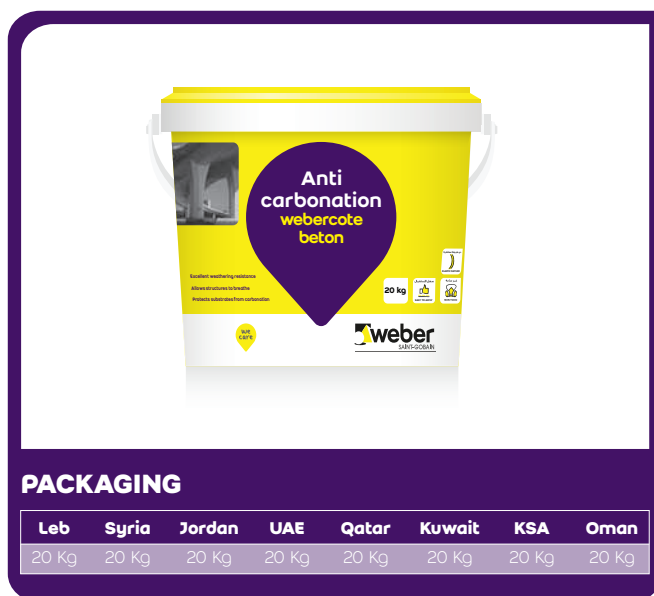
- Easy to clean
- Excellent weathering resistance
- Single pack and easy to apply
- Protects substrates from carbonation
- Elastic nature
- Allows structure to "breathe"
- Water based and non-toxic

CHARACTERISTICS

Colors	6
Appearance	matt finish
Weight by volume	1.33 kg/l
Viscosity (brookshield viscometer)	95 cP @ 0.6 RPM on spindle 93
pH value	9.2
Solid content	43%

The values stated are based on internal laboratory tests, therefore they are subject to normal manufacturing tolerances.

webercote beton	RESULTS	TESTS
Water vapor transmission	0.52g/m ² /day	ASTM E 96-95
Pull off strength	2.8 N/mm ²	ASTM D 4541
Carbon dioxide penetration resistance	NIL	NT BUILD 372:1991-02
Chloride diffusion coefficient	2.2x10 ⁻¹³ m ² /sec	NT BUILD 492 approved 1999-11
Water absorption	1.7%	BS 1881 P122:1983
Reduction in chloride ion penetration (RCP)	97%	ASTMC 1202-08
Crack bridging capacity	1.7mm	ASTM C1305-00
Tensile strength	4 MPa	ASTM D 412-98a
Elongation at break	225%	ASTM D 412-98a



APPLICATION SPECIFICATION

In order to obtain the protective properties of **webercote beton** a minimum rate of 1 coat primer and 2 finish coats diluted as below is required. Overcoating times should be observed.

Primer coat	webercote beton diluted at 100%
1st coat	webercote beton diluted at 40%
2nd coat	webercote beton diluted at 20%
time for application between 2 coats	12 hours

These times are calculated for 22°C. Lower temperatures require more time, higher temperatures less time.

CONSUMPTION

75 m² in 2 coats per 20 Kg pails at approx. WFT of 300 microns.

If higher thickness is required a third coat could be applied.

STORAGE

Validity of performance specifications: 12 months in intact package protected from excessively high or low temperatures and direct sunshine.

RECOMMENDATIONS

- Ideal application temperature: +5°C to +30°C, with max. R.H. of 85%
- Do not apply on wet or frozen surfaces, or where there is a risk of freezing within the next 24 hours
- Avoid application in full sunlight or in a strong wind
- For best results, apply with a brush or roller
- On large surfaces, it is good practice to interrupt application around joints and rain channels
- Protect sealed product from freezing and extreme heat during storage
- Do not leave buckets exposed to sunlight before use

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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