



KoverTek
Protective Coating Systems

ProTek-Crete

Fire Rated, Waterproof Anti-Carbonation Coating



Euroclass B-s1,d0



EN 1504-2 Certified

KEY PERFORMANCE DATA

Sd 52m

CO₂ Barrier

Sd 0.2m

Water Vapour

3.2 MPa

Bond Strength

B-s1,d0

Fire Class



Product Overview

ProTek-Crete is a high-performance, single component, water-based acrylic anti-carbonation coating engineered for the protection of concrete and masonry structures. Formulated to provide exceptional resistance to CO₂ diffusion, chloride ingress, and weathering whilst maintaining substrate breathability.



Structural Protection

Prevents carbonation-induced corrosion in reinforced concrete



Weatherproof Barrier

Water-repellent yet vapour permeable for long-term durability



Fire Performance

Achieves Euroclass B-s1,d0 reaction to fire classification

Typical Applications

Bridge Infrastructure

Multi-Storey Car Parks

Marine Structures

Facade Refurbishment

Balconies & Walkways

Concrete Repair



Key Features & Benefits



Breathable

Allows water vapour transmission whilst blocking liquid water



UV Resistant

Excellent Weathering and UV Stability for Exterior Exposure due to Nano Technology



CO₂ Barrier

Sd ≥ 50m equivalent air layer thickness certification



Colour Range

Standard Colours: White, Portland, Beige, Greys and Sandstone. Other RAL and BS Shades by request.



Fire Rated

Euroclass B-s1,d0 - very limited contribution to fire



High Bond

3.2 MPa adhesion exceeds EN 1504-2 requirements



Ready to Use

Single component coating so no additives or accelerators required. Simple Mix before Use and Apply



VOC Content (TBC)

Water-based formulation — VOC test result pending

Performance Balance

CO₂ Diffusion Resistance

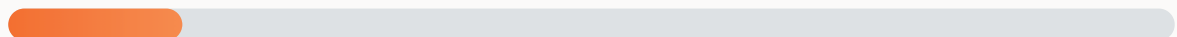
Sd 52m



Equivalent to 52m of air - Excellent Barrier

Water Vapour Permeability

Sd 0.2m



Class I Breathable per EN ISO 7783



Technical Specifications

Property	Test Standard	Result
Composition	-	Water-based Acrylic Copolymer
Colour	-	White + Custom RAL/BS/NCS
Density (declared)	Manufacturer data [†]	1.34 g/cm ³
Solids Content (declared)	Manufacturer data [†]	41%
CO ₂ Diffusion Resistance	EN 1062-6	Sd = 52m
Water Vapour Transmission Properties	EN ISO 7783	Sd = 0.2m (Class I)
Liquid Water Permeability	EN 1062-3	0.07 kg/m ² ·h ^{0.5}
Adhesion Strength	EN 1542	3.2 MPa (cohesive failure in concrete)
Fire Performance	EN 13501-1	B-s1,d0
Coverage Rate (declared)	Manufacturer data [†]	~0.18 L/m ² per coat (5.5 m ² /L)
Dry Film Thickness	Manufacturer spec / as tested	150 Microns

[†] Declared by KoverTek, not independently lab-tested to the cited method.



Application Guidelines

Manufacturer application guidance — not lab-certified data. Wet film target (180µm/coat) is consistent with the specification used for the tested batches.

Application Method

1

Surface Preparation

Substrate must be clean, dry, and structurally sound. Remove all dust, loose material, grease, and curing compounds. Concrete moisture <5%. Repair defects with compatible mortar.

2

Priming

For porous substrates, apply ProTek-Crete diluted 1:1 with water at 0.1-0.15 L/m². Allow to dry 2-4 hours. Non-porous surfaces generally do not require primer.

3

Application

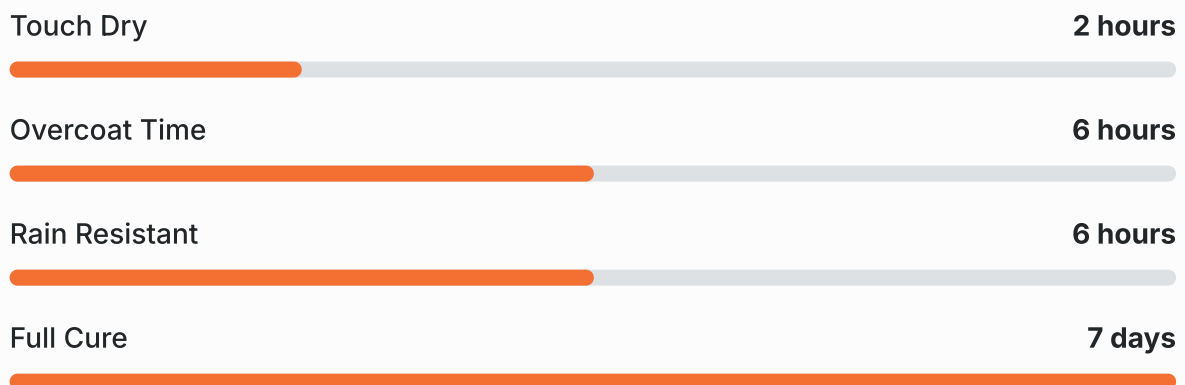
Apply by brush, roller, or airless spray. First and second coats both undiluted. Maintain wet film thickness 180µm per coat to achieve target DFT.

4

Curing & Protection

Protect from rain for minimum 6 hours at 20°C. Full cure achieved after 7 days. Do not apply below 5°C or above 35°C substrate temperature.

Drying Timeline @ 20°C, 65% RH



Equipment & Cleaning



Airless Spray: Tip size 0.017-0.021", Pressure 150-180 bar



Roller: Medium pile 12-15mm polyamide or microfiber



Cleaning: Water immediately after use. Cured material requires mechanical removal



Compliance & Approvals

ProTek-Crete conforms to the requirements of the following European Standards and regulatory frameworks:



EN 1504-2

Surface Protection Systems for Concrete



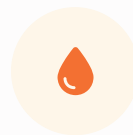
EN 13501-1

Reaction to Fire: Class B-s1,d0



EN 1542

Pull-off Bond Strength Testing



EN ISO 7783

Water Vapour Transmission: Class I

Additional Standards (Lab Verified)

- ✓ EN ISO 7783 - Water Vapour Permeability
- ✓ EN 1062-6 - CO₂ Permeability
- ✓ EN ISO 11925-2 - Small Burner (Fire)
- ✓ EN 13823 - Single Burning Item (Fire)



Health & Safety



Handling Precautions

- Avoid prolonged skin contact. Wear protective gloves and clothing.
- Ensure adequate ventilation during application. Use respiratory protection in confined spaces.
- Wear safety goggles to prevent eye contact. In case of contact, rinse immediately with water.
- Keep out of reach of children. Do not ingest.



Storage & Disposal

- Store in original sealed containers between 5°C and 30°C. Protect from frost and direct sunlight.
- Shelf life: 12 months from manufacture date when stored correctly.
- Disposal of product and packaging must comply with local waste regulations.
- Do not discharge into drains or watercourses. Refer to Safety Data Sheet for full details.

Important:

This technical data sheet is for guidance only. Always refer to the Safety Data Sheet (SDS) and Method Statement before use. For specific application advice or technical support, contact KoverTek Technical Services.



KoverTek

Protective Coating Systems

Engineering excellence in construction chemicals and protective coatings for infrastructure worldwide.

Technical Support

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Resources

Safety Data Sheet
Method Statement

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The information contained herein is based on our current knowledge and experience. User must satisfy themselves of suitability for intended use.