

UniSeal® 910

Acrylic-based, anti-carbonation protective coating

Description

UniSeal 910 is a high performance, acrylic-based, decorative coating for walls, beams, columns, soffits and ceilings. **UniSeal 910** prevents chloride ion ingress and resists carbonation attack.

Features and benefits

- Very good anti-carbonation properties. Extends concrete life expectancy.
- Available in white highly reflective color for walls & ceilings interior car park coating.
- Excellent resistance to dirt & dust pickup.
- Excellent resistance extreme weather conditions and UV rays.
- Maintains attractive appearance.
- Excellent water repellency.
- Water-based. Environmentally friendly.

Recommended for

UniSeal 910 protects concrete substrates from carbonation attack. The main areas of application are car park structures, concrete bridges and highway structures.

It is used also as a decorative exterior and interior coating in residential, commercial and industrial buildings.

Suitable substrates are:

- Stucco, render, concrete, brick, block and engineered concrete blocks (after applying suitable sealer).
- Wood and metal substrates (after special treatments).

Composition

UniSeal 910 is formulated around acrylic co-polymer resin, special fillers and additives.

Packaging

UniSeal 910 is available in 15 kg pails.

Coverage

Approximately 8 - 11 m²/kg/coat.

Note:

Coverage rate takes no account of wastage and may vary according to surface condition and application method.

Technical data

Solid content	62±2%
Viscosity at 25°C	3200 - 3300 cp
Density	1.33 gm/cm ³
Drying time at 25°C	Touch dry: 45 minutes
	Hard drying: 2 hours
Adhesion to concrete	1.55 MPa
Crack bridging	2.2 mm
Anti-Carbonation (Gm/m ² . Day)	0.22 C1
Distilled water resistance	Pass
Weathering	Pass
Accelerated weathering UV exposure wave length 312 nm 200h	No chalking, blistering, cracking and checking
Washability	Highly washable
Thinner	Water
Colors*	White – grey

UniSeal 910 passed the Egyptian Standard for Coatings No. 1539/2021.

UniSeal 910 passed Carbon Dioxide permeability and Crack-Bridging according to EN Standard EN 1062-6,7.

*Consultants should consult ACC for colors & shades. Whenever possible, obtain samples prior to specification.

Surface preparation

Cement-based substrates

Cement-based substrates to be coated should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any

other loose materials. Blow holes and surface defects should be filled with suitable repair mortar.

Smoothed surface can be obtained using **UniPutty 100** (optional). Apply one coat of **AcrySeal 799** to seal the substrate and improve adhesion.

Coated substrates

Ensure that the existing coating is not loose. Chalked coats should be brushed down. Lightly grind the surface using very fine emery paper. Wash the substrates with clean water. Allow surface to dry for 24 hours before proceeding. Apply one coat of **MagicSeal 900** to seal the substrate and improve adhesion.

Mixing

First coat : 10-15% with water.
Second coat : up to 5% with water.

Application

UniSeal 910 can be applied by stiff brush, roller or airless spray machine. Apply at temperature above 5°C. Protect the surface from rain for at least 4 hours after application. It is recommended to apply **UniSeal 910** in two coats. Drying time is between 2 to 4 hours at 21°C and 50% relative humidity.

If brush application will take place, thoroughly work **UniSeal 910** coat into the surface pores to fill completely. If roller application will take place, apply the **UniSeal 910** coat to the surface in a uniform manner.

Finish each coat in one direction to eliminate cold joints and marks between different applications.

No interruption in **UniSeal 910** coat due to surface irregularity is allowed.

Cleaning

Clean tools with water immediately after use. Hardened materials should be cleaned mechanically.

Storage and shelf life

To maintain its quality and suitability for use, the product should be stored in its unopened packaging, off the ground on pallets or similar structures, in a cool and dry environment. When stored under these recommended conditions, the product remains suitable for use for 12 months from the manufacturing date stated on the packaging.

Health and Safety

This product is not considered dangerous according to the current regulation regarding the classification of mixtures. It should not be ingested. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children. For further information, please ask for Safety Data Sheet for this product.

The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: www.acc.com.eg.

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- Waterproofing.
- Flooring.
- Tile Adhesives & Grouts.
- Concrete Repair.
- Non-Shrink Grouts.
- Bonding Agents.
- Exterior Façade Coatings.
- Premixed Fairing Coats, Renders & Mortars.
- Putties (stucco).
- Sealers & Emulsion Paints.