

CARBOSEAL

High-Performance, Elastomeric Anti-Carbonation Protective Coating

Description

CARBOSEAL is a high performance, elastomeric, acrylic water based waterproof and protective coating. It has been formulated to confer long term protective and decorative properties to concrete and masonry surfaces. The micro-porous structure of the coating acts as a barrier to the ingress of Chlorides and Carbon Dioxide and other acid gases but allows the passage of water vapor from the substrate.

CARBOSEAL has good crack bridging, durability, waterproof and protects from water-born aggressive agents.

Features & Benefits

- Excellent UV and weathering resistance
- Single pack, water based, easy to apply
- Protects substrates from gasses and carbon attack
- Highly resistant to freeze/thaw cycling
- Elastomeric, crack bridging capability
- Breathable, allows water vapor to escape from substrate
- Waterproof, protects from water-born salts
- Available in a range of colors.

Uses

CARBOSEAL is a decorative waterproofing and protective coating that can be used where new and existing concrete and masonry structures require protection from Water, Carbon Dioxide, Sulphur Dioxide, Oxides of Nitrogen, Chlorides, Sulphates and UV radiation.

CARBOSEAL can be used in car parks, commercial and industrial buildings, bridges, subways, high rise flats, roofs (metal or concrete), corrugated sheets, marine environments and under passes.

Technical Properties

Appearance	Acrylic Coating
Color	White, Off white & Lt. Grey (other colors available on request)

Mix Density	1,350 Kg/m ³ approx.
Solid Content by weight	>70%
Bonding Strength	≥1 N/mm ²
VOC	2 g/L
Elongation at break	350%
Solar Reflectance Index	>85%
Resistance to chloride ion penetration	97% M40 concrete
Chloride penetration after 2000hrs accelerated weathering	No penetration
Permeability to CO ₂	S _D >100m
Crack Bridging ability	2mm
Water vapor transmission	23.8 g/m ² /24 hrs.
Chemical Resistance	Resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM C 1305, C 1202
- EN 1062, 1542, 13501-1
- ISO 7783
- AASHTO T259, T260

Application Procedures

Surface preparation:

Substrates shall be clean, sound and free from contaminants such as oil, grease, moss, algae, dust and any existing loose or flaking paintwork.

Concrete surfaces shall be fully cured and free from laitance, mould release oils and curing compounds.

Mould or algae shall be removed with a proprietary fungicidal wash.

High pressure water jetting may be deemed necessary for heavily contaminated surfaces.

Blow holes or pitting on the surface shall be repaired with one of SBI concrete repair material. Consult SBI technical department for assistance.

All external substrates should be primed with **TOPSEAL S30** or **ULTRACURE 10** applied at approximate rate of 5-7 m² per Litre.

Internal surfaces can be primed with **ULTRABOND AR** (Diluted 1: 2 water). Do not apply **CARBOSEAL** until the primer is fully dry.

Mixing Instructions:

CARBOSEAL is ready to use single component product that requires to stir the content of pail before application to ensure no settled material.

Application Instructions:

Apply **CARBOSEAL** coating by brush, roller or airless spray at a nominal rate of 4-5m²/liter per coat and allow to dry.

A second coat may be subsequently applied crossed to the first coat at the same rate and when the first coat is totally dry. It is necessary for anti- carbonation properties the two coats should achieve total dry film thickness of 400 microns dry film thickness.

Coverage

Each 1 Ltr of **CARBOSEAL** will cover 7-8 sq. meter in 100 microns dry coat thickness.

Coverage depends on substrate porosity and profile.

Packaging

CARBOSEAL is available in 20Kg Pail

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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SALES OFFICE : Dubai, Barsha, Rasis Business Center
FACTORY : RAK, Jazerat Al Hamra

Tel.+971 4 3999927
Tel. +971 7 2210066
Fax. +971 7 2433821
P.O.Box 14569
www.sbi-me.com , info@sbi-me.com