



CARBONATION GUARD

CRACK BRIDGING & ANTI-CARBONATION PROTECTIVE COATING FOR CONCRETE.

DESCRIPTION:

CARBONATION GUARD is a single component, 100% pure acrylic based, one-part, elastomeric coating based on acrylic dispersion with excellent crack-bridging & anti-carbonation properties even at temperatures below 0°C. **CARBONATION GUARD** is water borne, high builds formula that blocks the carbon dioxide diffusion into the concrete thus preventing the Carbonation of Concrete & Reinforcement steel. After drying it forms a film of exceptional strength and durability that gives excellent resistance to water as well as solar radiations.

AREAS OF APPLICATION:

- Protection and enhancement of concrete structures (normal and light weight concrete), specially exposed concrete surfaces with a risk of cracking.
- With concrete repair works as an elastic protective top coating on Repair Guard ready mix polymer mortar concrete to old concrete.

ADVANTAGES:

- Crack-bridging even at low temperatures(-20°C).
- High diffusion resistance against CO₂ reducing the rate of carbonation.
- Water vapor permeable.
- Very good resistance against weathering and ageing.
- Preventive protection for new reinforced concrete structures exposed to aggressive Environments.
- Environmentally friendly (solvent free).
- Reduced tendency to dirt picks up and contamination.

TECHNICAL DATA:

Sr No.	Test Parameter	Result
1	Solid content (by volume)	68%
2	Chloride penetration (2000 hrs)	No penetration observed
3	Permeability to CO ₂ (EN-1062-6)	1.4056 (g/m ² /day)
4	Pull of adhesion strength (ASTM D4541)	2.25 Mpa
5	Elongation @ break	>300 %
6	Relative Density	1.25 @ 25 C

Constro Chem India Pvt. Ltd.

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DIRECTION FOR USE:

Adequate surface preparation as given below is necessary for product performance.

SURFACE PREPARATION:

NEW MASONRY:

CARBONATION GUARD Anti-Carbonation coating should not be applied to fresh concrete and to other surfaces less than seven days old. Ideally concrete should be allowed to cure for 28 days before application. Power wash to ensure no under bound sand or cement remains on the surface. Allow the surface to dry and apply **CARBONATION GUARD**.

EXISTING MASONRY:

Power wash to remove all loosely adhered coatings, dirt, mild dew and other contaminants.

Fill any existing cracks up to 3mm with Crack Guard (Acrylic Crack filler) paintable sealant. And more than 3mm with Repair Guard (Ready to use Polymer Repair Mortar) Ready for plastering within 24 hours of block work.

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PRODUCT DETAILS:

Nature	One Component Water Thinnable
Primer	Clean Potable Water [CARBONATION GUARD + 75% Water]
Drying Time	Dry To Touch – 30 Minutes
Recoating Period	Minimum 6-8 Hrs. At Room Temperature (Ideally 24 Hrs.)
Coat Applied On	Coverage [Sq.Ft./Ltr./2 Coat]
On Asbestos Roof	25–30
Concrete/Plastered Surface	35–40
No. Of Coats	2, Depending Upon the Substrate & D.F.T. Required
Shades	As Per Standard Shade Card
Method Of Application	By Brush Or Roller
Finish	Semi-Gloss
Dry Film Thickness	225-250 Microns (Three Coats)

STORAGE AND SELF LIFE:

Store away from direct sunlight. 12 months from date of manufacture

SAFETY PRECAUTIONS:

However, any splashes on any part of the human body must be washed with plenty of water and

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