

CARBONATION GUARD (Crack bridging and anti-carbonation coating)

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 born, 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 permeability.
- 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 SPECIFICATIONS:

Sr. No	Specifications	Technical Details
1	Nature	Water based (One component)
2	Solid content by volume	68%
3	Coverage	30 – 35 sq. ft/ltr/2 coats
4	DFT	230-250 Microns
5	Permeability to CO ₂	1.4056 g/m ² /day (EN-1062-6)
6	Pull of adhesion Strength	2.25 Mpa (ASTM D 4541)
7	Relative Density	1.25 @ 25° C
8	Elongation at break	>300%
9	Recoating period	Minimum 6-8 Hrs.@ Room Temperature (Ideally 24 Hrs.)

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 WATER GUARD-45 (acrylic crack filler) paintable sealant and more than 3mm with REPAIR GUARD-F (ready to use polymer repair mortar) ready for plastering within 24 hours of block work.

APPLICATION:

By brush or roller after surface preparation

STORAGE & SHELF LIFE:

Store away from direct sunlight. 1 year in tightly sealed container.

SAFETY PRECAUTIONS:

Wear gloves, goggles, and mask to avoid skin and eye contact. Prevent inhalation of fumes. Wash hands thoroughly after use. In case of skin contact, wash with soap and water, and seek medical attention if irritation persists.

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