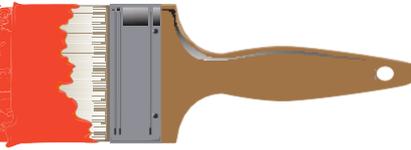




GROWGUARD



GROWGUARD HP ANTICARBONATION COATING

Growguard HP Anticarbonation coating is a high - performance water based smooth exterior anti-carbonation coating formulated on 100% acrylic emulsion and inert pigments. It possesses outstanding exterior durability with excellent resistance to water vapour permeation & carbon

dioxide diffusion and adequate elasticity to bridge moving cracks when applied on concrete structures but at the same time retain long term aesthetics and functional protection.

Water Based; Low VOC; No added Lead, Mercury and other heavy metals

PRODUCT ATTRIBUTES:



Excellent resistance against CO₂, Cl⁻ ion and water vapour diffusion to protect rebars embedded in concrete matrix



Excellent UV protection - ensures Long-Lasting finish and colour retention.



Excellent elongation property and crack bridging ability



Superior breathability to prevent moisture accumulation around rebars.



Smooth finish with rich sheen.



Outstanding Algal & Fungal resistance.



Very Good Dirt Pick up Resistance (DPUR).



Low toxicity, odour & eco-friendly



APPLICATION GUIDELINES:

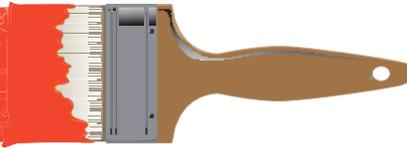
Application Tool - Brush or Roller

Dilution - 5 -10% max by volume with water.

Apply with minimum dilution to achieve desired DFT

Recommended Painting System

- Growguard Sealer coat - 1 coat (apply as such to achieve 30-40 micDFT)
- Growguard HP Anti-carbonation top-coat - 2 coats of 100-micron DFT each



PERFORMANCE DATA & TECHNICAL SPECIFICATION:

Colour – As per Shade Card & Custom Colours.

Finish – Smooth finish with rich shyne Sheen

Sheen – 8-12 by 60 deg Gloss-head.

Specific Gravity – 1.35 ± 0.05

Solid content – 70± 3

VOC < 50 gm/lit

Recommended DFT -200 mic

Spreading Capacity – 25-30 sq. ft / litre /200micron DFT

(in 2 coats)

(Actual Spreading may vary depending on substrate condition & method of application and environmental conditions. Do not overthin product to achieve recommended DFT.

Drying Time at 30°C –

a. Touch Dry – 1 hour.

b. Recoatability – 6 – 8 hours.

(depending on Temperature, humidity, Air Movement, Film Thickness & number of coats).

Shelf Life – 3 years from the date of manufacture when kept in sealed condition under shade

Anti- Carbonation Property:

Carbon Dioxide diffusion Co-efficient: 2×10^{-7} Cm²/Sec

Equivalent Air Layer Thickness (R) – 180 mt at 200-250-micron DFT (Klopfer criterion for anti-carbonation -R value >50 mt)

Water Vapour Transmission:

Vapour Diffusion Co-efficient (Sd) - 5×10^{-6} Cm²/Sec

Equivalent Air layer Thickness (Sd)- 0.8 mt at 200micron DFT (Sd value should be below 4 mt)

% Elongation - Greater than 300% at 30 deg C

Flash Point (IS 101 / 1987: Part 1) – Material is not flammable.

SURFACE PREPARATION STEPS:



New masonry surfaces/plaster must be allowed to cure completely for minimum 28 days to ensure full cure prior to painting.



Clean the surface with high pressure water jet / wire brush to ensure that the surface to be painted is free from any loose paint, powdery material, dust, oil & grease, fungus, moulds and algae infestation.



If fungus is present, first treat the surface with a fungicidal wash, leave for 24 hrs and then clean with water



If grease is present clean using a mild detergent or solvent and rinse thoroughly with fresh water



If overcoating on existing coating, scrape all flaking, peeling and loose materials back to a firm edge



Ensure moisture content is below 8% prior to painting

PAINT APPLICATION PROCEDURE:

- Apply one coat of Growguard sealer coat to by brush to seal all the exposed areas of the cleaned concrete. Apply the sealer coat as such or as per recommended dilution.
- Allow sealer coat to dry overnight
- Apply first coat of Growguard anti-carbonation coating by brush or roller as per recommended dilution
- After overnight drying apply second coat of anti-carbonation topcoat
- Do not overthin topcoat to ensure application of adequate achievement of recommended DFT



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RECOMMENDED CARE POST PAINTING:

To enhance best performance and appearance of the painted wall, it is advisable to wash the surface with clean water at regular interval e.g. once in every 6 months to ensure cleaning of any algal deposit & fungal growth on the walls.

PRECAUTIONS & SAFETY MEASURES:

- For best results surface dampness must be controlled below 8%.
- Stir well & strain before use.
- Prior to use, read and follow product specification & label information.
- Use PPE's like rubber or polythene gloves, safety goggle / glasses and face mask, during surface preparation and painting to prevent inhalation of dust and vapours
- Keep out of reach of children. Avoid contact with food materials.
- The material may be harmful, if swallowed. Seek immediate medical attention in case of ingestion.
- Wear eye protection device. In case of contact with eyes rinse with plenty of water and seek medical attention.
- In case of skin contact wash thoroughly with soap and water. seek medical help if irritation persists due to allergic reaction.
- Do not inhale sanding dust. Use appropriate mask during application.
- The material is non-toxic in nature since it does not contain any added Lead, Mercury, Arsenic, Antimony and Chromium compounds.
- Seek medical attention in case of ingestion.
- Wear eye protection device. In case of contact with eyes rinse with plenty of water and seek medical attention.
- In case of skin contact wash thoroughly with soap and water. seek medical help if irritation persists due to allergic reaction.
- Do not inhale sanding dust. Use appropriate mask during application.
- The material is non-toxic in nature since it does not contain any added Lead, Mercury, Arsenic, Antimony and Chromium compounds.
- Do not pour leftover paint down the drain or in water courses.
- Consumers should consult a local recycling agency for proper disposal of left-over paint/drums.
- For more information refer product MSDS which is available on request.

FREIGHT CLASSIFICATION: PAINT

PACKAGING:



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