

ColyBridgeGuard

Solvent Based Anti-Carbonation Coating

Product Description

ColyBridgeGuard is a high-performance, solvent-based methyl methacrylate (MMA) resin coating designed for anti-carbonation protection. It is specifically formulated to provide exceptional resistance to weathering, alkalis, CO₂ diffusion, and aging on mineral substrates such as concrete and other cementitious surfaces. ColyBridgeGuard safeguards against harsh environmental conditions, water penetration, carbon dioxide, chlorides, and other corrosive gases that could damage the steel rebar within the concrete. Additionally, concrete treated with ColyBridgeGuard demonstrates excellent resistance to dirt accumulation while preserving good water vapor permeability. It is recommended for use on exterior concrete, reinforced concrete columns, beams, masonry aggregate concrete, cementitious materials on building and infrastructure elements.

Product Information

Finish	: Satin
Color	: Wide Range of Color
Flashpoint	: > 25 °C
Volume Solids	: 49 ± 2%
Specific Gravity	: 1.16 – 1.22 g/cm ³
Carbon dioxide diffusion resistance	: 390 m of air (BS EN 1062-6:2002, Method B)
Water vapour transmission	: 23.03 g/m ² /day (BS EN ISO 7783-1 :2011)
Reduction in water absorption	: 85.5% (ASTM C642-06)
Reduction in chloride ion refusion	: 99.26% (ASTM C1556-11a)
Freeze/Thaw salt scaling	: After 50 cycles exposed no scaling effect (ASTM C672-12)
Recommended no. of coats	: 2
Recommended wet film thickness	: 150 µm / Coat
Recommended dry Film thickness	: 68 µm / Coat
Theoretical spreading rate@ 68 µm	: 7 m ² / L / Coat
Drying Agent	: Evaporation
Drying Time	: Touch Dry: 30 min; Hard Dry: 2 hours
Applied by	: Brush / Roller / Airless Spray
Thinner	: Thinner C50
Packing	: 20L
Shelf Life & Storage (unopened and in good conditions temperature 10°C - 30°C)	: 12 months



COLY COATING SDN BHD

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Substrate Requirement & Preparation

New Concrete/Masonry Substrate

Allow all new surfaces to dry out thoroughly, preferably for at least 28 days drying time or check moisture content for less than 16%. Surface imperfections, misalignments and protrusions shall be made good and patched up. All surface contaminants such as laitance, dust and loose cement shall be removed using scraper, sandpapers and clean stilt brushes.

Previously Painted Surfaces

All loose or defective paintwork or powdery residues shall be thoroughly removed by high pressure water jet cleaning. Treat any areas affected by mould, lichens, algae and moss with "Coly Fungicidal Solution". Make good minor defects with an appropriate suitable exterior putty sealant.

Typical Coating System

Substrate: New Concrete, Masonry, Exposed Aggregate

<u>Coating Sequence</u>	<u>Product Name</u>	
Primer	: AquaColy-SE (Optional)	1 Coat
Finish Coat	: ColyBridgeGuard	2 Coats

Substrate: Previously Painted Concrete, Masonry, Exposure Aggregate

<u>Coating Sequence</u>	<u>Product Name</u>	
Primer	: N / A	
Finish Coat	: ColyBridgeGuard	2 Coats

Application

For use on very dense concrete, the first coat of ColyBridgeGuard shall be thinned with up to 10% Thinner C50. Bridge- Gard can be applied by brush or short piled lambskin roller. It can also be applied by airless spray, thinning up to maximum 10% with Thinner C50. Spray pressure 150 byres, nozzle 0.38-0.66mm.

Safety Precaution

This product is flammable and must be kept away from any source of ignition. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Keep out of reach of children.

Disclaimer: The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our product by be used, we can only guarantee the quality of the product itself. We reserve the right to alter the given data without prior notice.



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