



Vapro-CRI™ 6000 Series – VRC

Vapro Rebar Coating (VRC)

Scientifically engineered corrosion protection for reinforcing steel.

Powered by Advanced Molecular Chemisorption Technology, the VRC forms a chemically bonded protective barrier that shields reinforcing steel before it is encased in concrete — while staying fully compatible with repair mortars and fresh concrete.

Molecular Chemisorption

Dual-Action Protection

Long-Term Durability

Protecting Reinforcement Today for a Durable Tomorrow

The Challenge & The Solution

THE CHALLENGE

Steel reinforcement is the structural backbone of concrete. Yet chlorides, carbon dioxide, moisture, oxygen and sulphates steadily destroy the passive oxide film that protects it — triggering electrochemical corrosion that leads to cracking, delamination, spalling and costly repair.



THE SOLUTION

The Vapro-CRI™ 6000 Series – Vapro Rebar Coating protects reinforcing steel before it is encased in concrete. Its Advanced Molecular Chemisorption Technology forms a highly adherent, chemically bonded barrier that isolates the steel from corrosive species while remaining fully compatible with cementitious repair materials and fresh concrete.

Dual-Action Protection

Rather than relying on physical isolation alone, the VRC combines active corrosion inhibition with high-performance coating technology — suppressing the electrochemical reactions that drive reinforcement corrosion:

Suppresses anodic iron dissolution

Suppresses cathodic oxygen reduction

Stabilises the passive layer • Minimises chloride-induced depassivation • Extends structural durability

Key Benefits

What the Vapro-CRI™ 6000 Series delivers for your structures:

1

Protects exposed reinforcing steel during concrete repair

2

Restores and maintains reinforcement passivity

3

Resists chloride ingress, carbonation, moisture and chemicals

4

Excellent adhesion to steel and compatibility with repair mortars

5

Reduces corrosion initiation and propagation

6

Improves the bond between steel, coating and concrete

7

Extends the service life of reinforced concrete structures

8

Lowers maintenance frequency and life-cycle costs

Where It Is Used

Engineered for new construction, concrete rehabilitation and infrastructure repair, the VRC protects reinforcing steel at its most critical stage — before corrosion can compromise structural integrity.

IDEAL APPLICATIONS



Bridges & Highways



Marine & Offshore Facilities



Tunnels



Ports & Harbours



Petrochemical Plants



Water Treatment Facilities



Transport Infrastructure



Commercial & Industrial Concrete



For engineers, contractors, consultants and asset owners

**Protecting Reinforcing Steel. Enhancing Concrete Durability.
Extending Infrastructure Service Life.**



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