

SOUTH AFRICAN BUILDER®

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LAYING FOUNDATIONS OF THE FUTURE

14

GOVERNMENT'S
R155BN
PROPERTY PLAN

22

GOLDEN WALK
OPENS IN
HARTENBOS

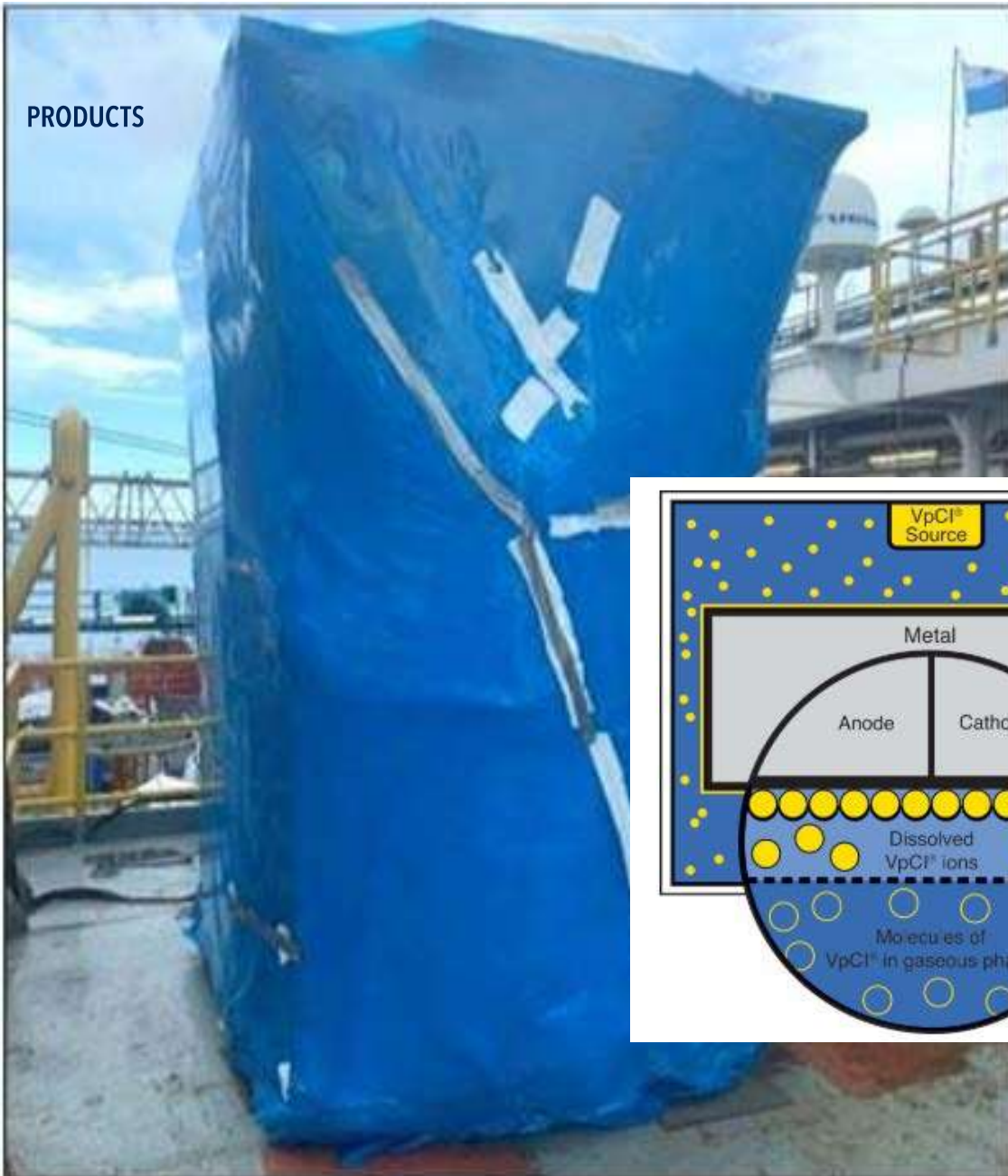
36

SCP P3 IN CONCRETE
DENSIFICATION
RESEARCH



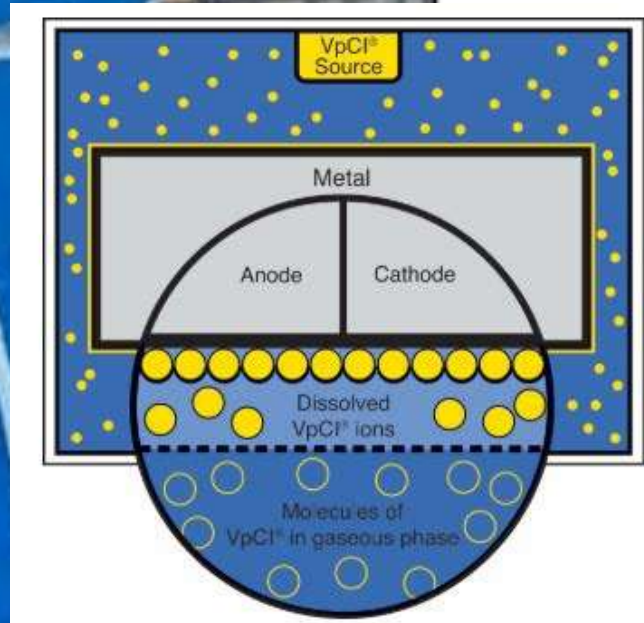
MASTER BUILDERS
SOUTH AFRICA

PRODUCTS



(Left): Cortec's VpCI®-126 HP UV shrink film.

(Below): How VpCI® molecules form an invisible protective layer on metal surfaces.



MATERIAL BANKS: PROTECTING CONSTRUCTION PROFITABILITY

The construction world is facing numerous changes, from shifting material costs to difficult project schedules. Because of this, taking care of equipment and

materials is more important than ever for a company's bottom line. Whether building highways, large pipelines or office towers, rust is a silent threat that can

turn a profitable job into a loss. Cortec® Corporation, a leader in corrosion protection, is changing how contractors protect their "material banks" and their heavy

machinery using VpCI® and MCI® technologies.

STOPPING RUST BEFORE IT STARTS: THE POWER OF VPCI®

Because of supply chain problems, many contractors are now buying materials years in advance. They are building a “material bank” of items such as steel, valves and electrical parts to avoid future price hikes. However, this strategy only works if those items stay in perfect condition. If they rust before they are used, the contractor loses money. This is why Cortec’s VpCI® technology is so important. Unlike old-fashioned, messy greases that take hours to scrub off, VpCI® molecules travel through the air to form an invisible protective layer on metal surfaces. VpCI® protects metal by releasing protective molecules into the air. These attach themselves to metal surfaces, creating an invisible shield that blocks rust. Because the protection travels as a vapour, it can reach hidden parts that traditional sprays or greases cannot access.

Once the metal is removed from the package, the molecules simply evaporate, leaving the surface clean, dry and ready for immediate use without any cleaning.

This kind of protection ensures that when a project reaches a critical milestone, the materials pulled from the “bank” are ready for immediate use, welding or painting, preserving the full book value of the contractor’s inventory.

INTEGRATING PROVEN SOLUTIONS ACROSS THE CONSTRUCTION LIFE-CYCLE

Cortec® provides a wide palette of solutions designed to handle the harshest job site environments, from the humidity of coastal regions to the salt-heavy environments of winter road construction. For the protection of heavy equipment fleets such as excavators, cranes and pavers, Cortec’s VpCI®-126 HP UV shrink film (also available in a PCR version) offers a high-performance solution which combines heavy-duty protection with active corrosion inhibitors and UV protection. This allows contractors to mothball expensive machinery during seasonal downtime. When the machinery is needed back on site, the film is simply removed and can be recycled, eliminating the need for labour-intensive degreasing and chemical solvents.

When it comes to building bridges and roads, Cortec’s MCI® (Migrating Corrosion Inhibitor™) is the world leader in making concrete last longer. Products like MCI®-2005 can be mixed into new concrete or applied onto old structures to protect the steel bars (rebar) inside. Even when salt from the ocean or winter roads soaks into the concrete, MCI® molecules migrate through the structure to form a protective shield around the rebar. This process meets high industry standards and keeps bridges and highways safe for much longer, which means fewer expensive repairs.

Cortec’s diverse range of solutions provides significant benefits across these industries, including specialised technologies. For example, VpCI®-337 is used for fogging large pipes, while VpCI® emitters keep electrical components rust-free, ensuring that every asset on the job site is protected.

By opting for VpCI® and MCI® technologies, contractors are doing more than simply buying a chemical product: they are implementing a high-level business strategy which prioritises safety, environmental sustainability and bottom-line profitability. As a leader in green chemistry, the Cortec® Corporation helps companies meet tough environmental standards without sacrificing performance.

With these sustainable solutions, contractors get the best possible protection for their assets, while reducing their environmental footprint. ■

“THIS KIND OF PROTECTION ENSURES THAT WHEN A PROJECT REACHES A CRITICAL MILESTONE, THE MATERIALS PULLED FROM THE 'BANK' ARE READY FOR IMMEDIATE USE, WELDING OR PAINTING, PRESERVING THE FULL BOOK VALUE OF THE CONTRACTOR’S INVENTORY.”