

Electric Vehicle battery manufacturing and storage

Protective coating solutions



Protecting your asset and maximizing performance

As the world transitions towards a more sustainable future, the electric vehicle (EV) market is at the forefront of this revolution. The rapid advancement and adoption of EV technology signals a significant shift towards sustainability, efficiency, and innovation. However, this transformative journey comes with its own set of challenges, particularly in the realm of battery manufacturing and storage.

At AkzoNobel, we understand the critical role that battery manufacturing and storage facilities play in the success of electric vehicles. Our cutting-edge protective coatings brand, International®, provides coatings, linings, and fireproofing solutions to address the unique demands of your EV battery production and storage facility.

These advanced coatings not only protect your facility against corrosion and chemical damage but also adhere to strict industry safety standards. By selecting International® for your project, you are not only investing in superior protection for your equipment and infrastructure but also aligning with a brand that prioritizes environmental stewardship and sustainable practices.

With over 100 years' experience in the heavy-duty lining business across multiple market segments and an unrivalled product portfolio, AkzoNobel has the experience and product solutions to support the global energy transition.

Matthew O'Keeffe
Segment Manager,
Protective Coatings

One partner for all your coating needs

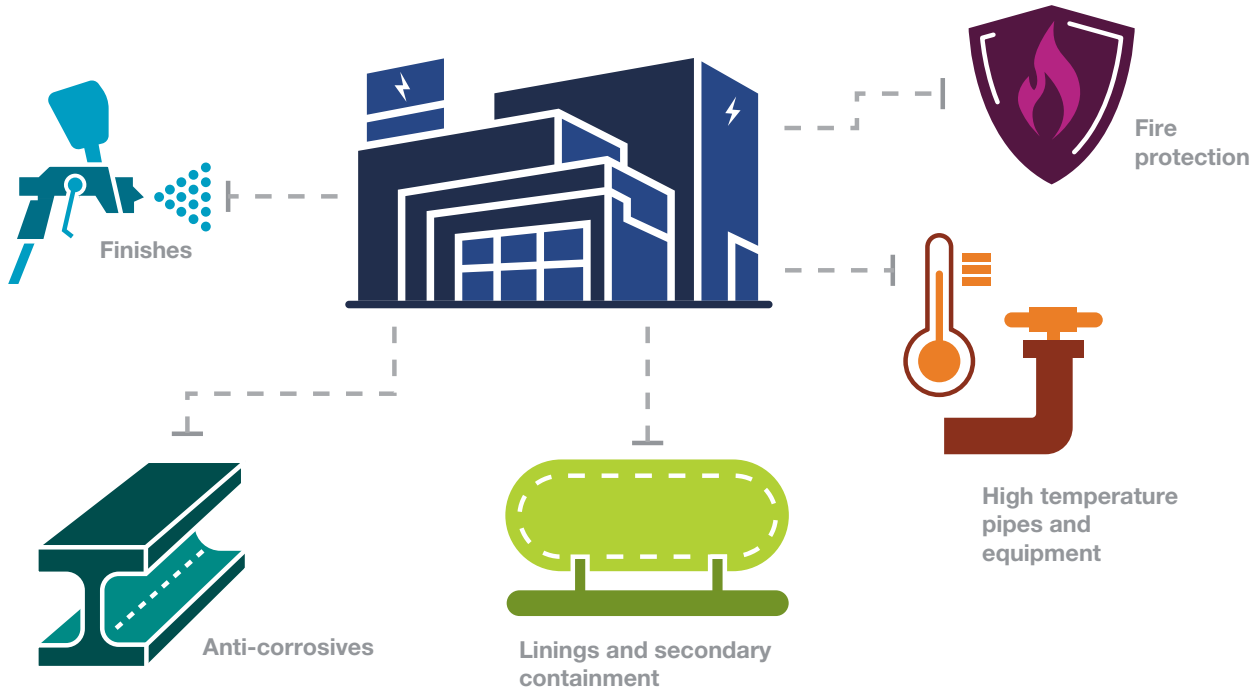
Our International® product range offers a comprehensive solution for all your project coating and fire protection needs, ensuring seamless integration and superior performance for both steel and concrete infrastructure.

By providing a full range of advanced protective coatings under one roof, we eliminate the need for multiple suppliers, simplifying your supply chain and guaranteeing consistency and quality across all applications.

As your dedicated partner, we are committed to delivering exceptional protection, enhancing the longevity and safety of your facility while streamlining your project management. All our products are fully tested and evaluated for use with each other.

- Primers**
Epoxy and zinc rich epoxy primers
- Mid coats**
High performance intermediate epoxy coatings
- Colored topcoats and specialty finishes**
Polyurethanes, polysiloxanes and isocyanate free finishes
- Passive fire protection**
Intumescent fire protection

Total asset protection



Supporting customers globally



Delivering to your doorstep

International® is a leading coatings brand of AkzoNobel with extensive global experience combined with unrivaled corrosion and coatings expertise.

Our presence in over 50 locations worldwide, including 13 research and development sites and 16 manufacturing facilities, allows us to support your project needs across the globe.

Our NACE and FROSIO accredited Technical Service Representatives (TSR) offer a globally supported, complete technical services program tailored to your project requirements.

Fire protection you can trust

Our comprehensive International® testing program, in full compliance with ASTM E-119 standards (equivalent to UL263 and ULC101), assessed the integrity and insulation performance of materials and assemblies during fire exposure to measure their ability to withstand heat and maintain structural integrity.

Research demonstrated that a broad range of column and beam sizes enhanced our product performance. Our lower density formulation requires less material for effective protection, potentially saving time, reducing costs, and setting a new standard in fire protection solutions.

In partnership with Newcastle University in the United Kingdom, AkzoNobel has carried out extensive research into lithium-ion battery fires to innovate leading passive fire protection systems for structural steel.



Superior performance for lithium-ion battery technologies

Interchar 212

- ✓ High performing epoxy coating
- ✓ Proven fire and corrosion protection
- ✓ ISO2812-1 certification
- ✓ ICC compliant
- ✓ Optimized for off-site and on-site application
- ✓ Rapid application and cure
- ✓ Tested superior mechanical performance
- ✓ Suitable for manual and spray application
- ✓ Technology based on 50-year Chartek® legacy

Certified performance

- ✓ British Standard BS476 for up to 2 hours
- ✓ Australian Standard AS1530:4 for up to 2 hours
- ✓ GOST Russian standard for up to 2 hours
- ✓ Approved in Taiwan for up to 2 hours
- ✓ Chinese approval for up to to 3 hours
- ✓ UL263 listed for up to 4 hours
- ✓ UL263 exterior listed
- ✓ Registered with UL Follow up Service
- ✓ ASTM E84 flame spread – Class1 – suitable for internal areas

Drive project efficiency with off-site application

Interchar 212 is optimized for off-site application by professional steel and fabrication facilities to ensure the highest quality control.

Benefits of off-site application:

Improve quality control

Application is carried out by experts within a highly controlled environment.

Reduce project complexity

Eliminates the additional resources and procedures required for on-site application.

Minimize potential health and safety risks

Asset is fire protected during construction phase to provide peace of mind.

Save on project costs

Avoids the extra costs associated with on-site application, such as, labor and equipment hire.

Simplify construction schedules

Removes the need to seal off areas during application.





Chemical resistant lining to maximize performance

Our specialized chemical resistant epoxy lining system, Ceilcote®, provides an innovative solution with proven performance in protecting your asset, even in more aggressive environments.

The vinyl ester and novolac ester resin technology in Ceilcote makes it a premier choice for steel and concrete infrastructure. It is available in a variety of grades to meet your unique application requirements.

Ceilcote features

- Resistant to 1500+ chemicals
- Quick application for higher productivity
- Impact and abrasion resistant
- Crack bridging on concrete substrates
- High-temperature resistant
- Solvent free

Advanced flooring systems that withstand aggressive chemicals

To effectively combat the challenges posed by aggressive substances such as Methyl-2-pyrrolidone (NMP), a powerful low-flash point solvent which increases the risk of fires within manufacturing plants, International® offers two solutions with a proven track record for superior performance to ensure optimal protection for your asset.

Product benefits	Ceilcote 387 Hybricrete	Ceilcote 389 Hybricrete
Chemical resistance	Formulated to withstand aggressive chemicals, ensuring that surfaces remain unaffected by NMP, and other solvents commonly used in battery production processes.	Offers excellent resistance to NMP, protecting surfaces from chemical degradation.
Durability	Provides long-term protection to surfaces to minimize maintenance needed and extends lifespan.	Significant mechanical strength makes it ideal for areas subjected to heavy machinery and frequent foot traffic. Ceilcote 389 Hybricrete is also designed to withstand significant temperature variations without cracking or losing adhesion.
Application	Apply seamlessly, creating a uniform barrier that prevents NMP from penetrating and causing damage to underlying materials.	Can be applied in a relatively straightforward manner, allowing for quick installation and minimal downtime during maintenance or upgrades.
Safety and compliance	By preventing NMP from degrading surfaces, both Ceilcote 387 Hybricrete and Ceilcote 389 Hybricrete help maintain a safe working environment, contributing to compliance with industry safety standards.	

Conductive flooring systems to safeguard your asset

Conductive flooring plays a vital role in protecting your asset by controlling electrical conductivity and safeguarding sensitive battery components to reduce the risk of fire. Our Ceilcote systems for flooring are designed to ensure safe electrical conductivity which adheres to industry standards and regulations.

Ceilcote 688 Flooring

Excellent conductivity and durability. Designed to withstand the rigorous conditions of industrial environments while providing reliable electrical grounding.

Ceilcote 6640B Ceilcrete

Designed for superior impact resistance and durability, ensuring a safe and reliable environment for battery.

Ceilcote 6650B Ceilcrete

Superior chemical resistance and durability, suitable for environments with harsh chemicals. Its conductive properties are ideal for static control.

Ceilcote 510 Coroline

Chemical resistance and long-lasting performance. Maintains effective conductivity while withstanding the challenges of a manufacturing setting.

Ceilcote 389B Hybricrete

High conductivity and excellent mechanical strength, suitable for high-traffic areas and heavy equipment.



As a partner, we use our global network of technical service representatives, engineering and specification specialists, and corrosion experts to help you develop and execute your project.

Are you ready to maximize the performance of your asset?

Get in touch with one of our representatives to discuss your challenges and how we can work together to find you the right solution.

www.international-pc.com

