

SOLUTIONS FOR BATTERY  
MANUFACTURERS



**STONHARD**<sup>®</sup>

MANUFACTURER AND INSTALLER OF SEAMLESS FLOORS, WALLS AND LININGS



UNIQUE SOLUTIONS FOR EVERY  
AREA OF YOUR FACILITY



# THE ULTIMATE SEAMLESS SOLUTION FOR BATTERY MANUFACTURING FACILITIES

The staggering growth of electric vehicles has led to an unprecedented increase in battery manufacturing. This growing industry requires its caretakers to invest in the right assets to ensure ultimate performance for their facility. These include floors, walls and linings.



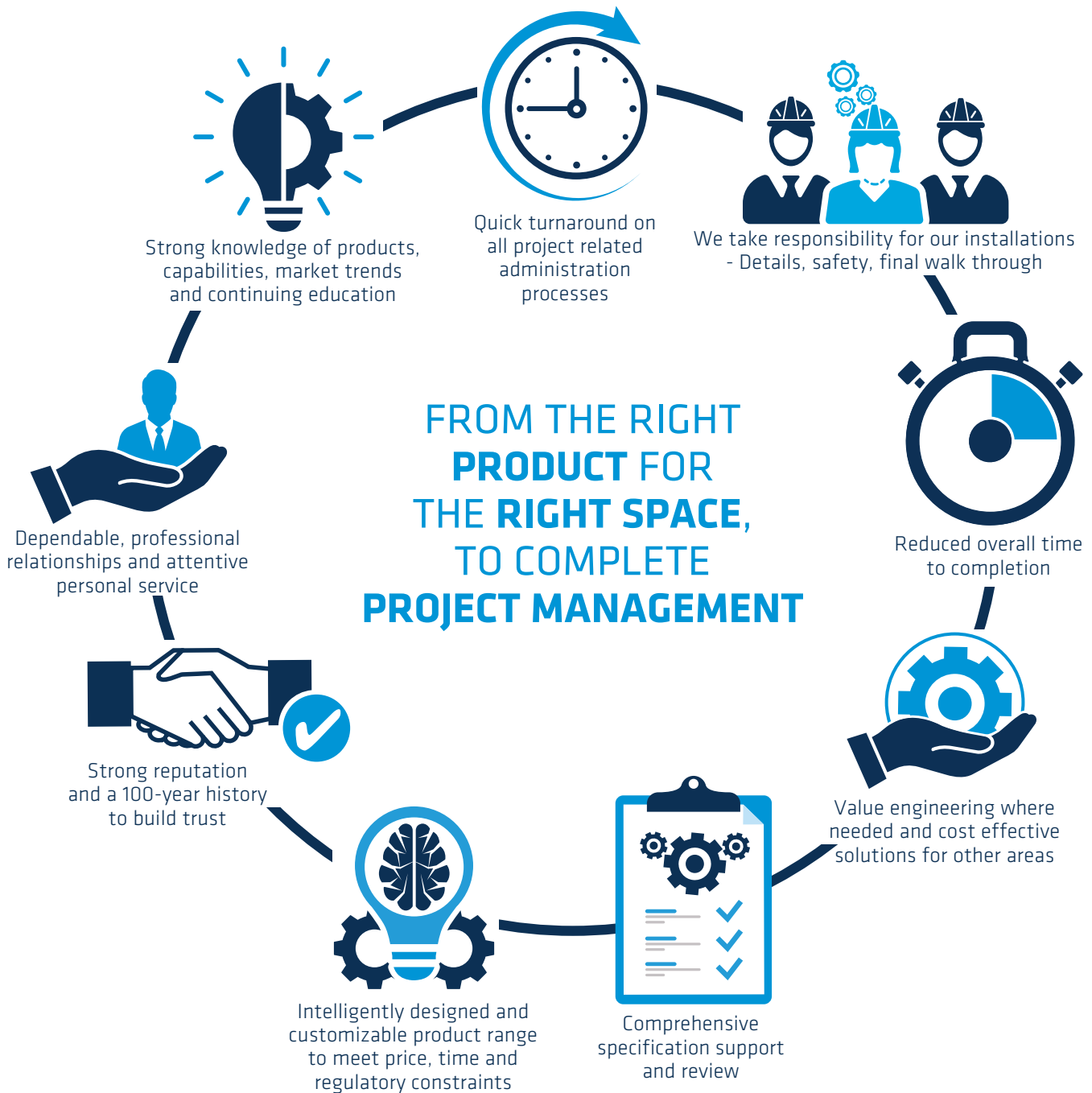
## BENEFITS AT A GLANCE

- Increased Durability
- Increased Chemical and Stain Resistance
- Increased Slip and Abrasion Resistance
- Sound-Absorbing Properties
- Thermal Shock Properties
- Static Control and ESD Properties
- Low VOC's
- Spark-Proof Properties
- ISO 9001 Certified
- ISO 45001 Certified

# WHY CHOOSE STONHARD?

Few companies can claim a 100-year legacy or the reputation of problem-solving Stonhard is built on. We have been delivering proven, single-source service, covering both your products and installation for more than a century. From the start of your project to its finish, from specifications and design to project management and final walk through, you work with us directly. We remain your trusted partner today and for decades to come.

## A COMPLETE TURNKEY SOLUTION



Stonhard's flooring solutions for **battery manufacturing facilities** are **designed and engineered** to meet the specific **needs** of your facility. Our team will provide you with the best system for your environment.



#### **CHEMICAL RESISTANT FLOORS FOR MIXING AND COATING AREAS**

This first stage of electrode manufacturing includes power mixing and coating and though precautions are taken, accidents are not uncommon. Chemical-resistant flooring, wall and lining systems contain properties that protect these areas from spills, splashes from acids, alkalis, solvents and other corrosive elements.

#### **DURABILITY FOR GENERAL MANUFACTURING AREAS**

Durability is an essential flooring feature in any battery manufacturing facility because of heavy equipment. Stonhard floors provide high-compressive strength and impact resistance, engineered with constant foot and wheel traffic in mind for the slitting, cell stacking, calendaring and tab welding areas.



#### **SPARK PROOF AND SUPERIOR STATIC CONTROL**

On standard floors, it is very easy to build up static charge through friction. Stonhard's ESD floors, also known as static dissipative floors, provide superior static control and protect personnel and equipment from sparks, shocks and explosions by utilizing carbon-filled primers. In most battery manufacturing plants, this feature becomes necessary during electrical filling and the End of Line (EoL) testing phase.

#### **HYGIENIC SOLUTIONS FOR LUNCH ROOMS AND WASHROOMS**

Seamless floors are inherently hygienic, protect against bacteria, and provide a healthy environment with low VOC. Our floors also have stain-resistant properties, remaining easy to clean while saving time and money. This feature is highly preferable in lunch rooms, washrooms and change rooms.

## RAW MATERIALS WAREHOUSE/STORAGE

A high-traffic, abrasion-resistant solution that will stand up to constant use in busy environments such as a warehouse.

## MIXING AREAS

Impact, slip and chemical-resistant flooring system that provides a safe environment for employees while preventing slips and falls.

## ROLL PRESS

High-strength flooring system that can withstand heavy loads with improved compressive strength.

## NOTCHING & SLITTING

Abrasion and impact-resistant systems designed for heavy machinery.

## CATHODE & ANODE OVENS

Seamless easy-to-clean flooring systems that provide thermal cycling properties and slip resistance to avoid slips and falls.

## DIE CUTTING & STACKING

Abrasion-resistant floors that stand up to wear and tear caused by foot, AGVs, mechanical traffic and equipment.

## X-RAY AREA

ESD floors that provide superior static control and unparalleled ergonomics while extending the longevity of your X-Ray room's floor.

## WELDING & SEALING

Electrostatic floors and chemical-resistant wall systems that protect against static charge as well as spills and leaks.

## CELL STORAGE

Floor and wall systems with chemical-resistant properties that protect these areas from spills and splashes of all kinds.

## MODULE ASSEMBLY

ESD and chemical resistant flooring system that withstands foot traffic as well as improves cleanability.

## TESTING

ESD floors that reduce the friction build-up in testing environments and withstand constant wheeled traffic.

## MODULE CACHE AREA

Electrostatic floor designed to prevent sparks, shocks and static charges caused by friction in module cache areas and helps protect personnel.

## ADDITIONAL AREAS INCLUDE:

- Lunch Rooms & Washrooms
- Cafeterias & Kitchens
- Medical Centres
- Service Bays for Fire & Ambulance
- Outdoor Walking Areas

*These are recommendations only. There are many solutions and options.*

*Your Stonhard sales expert will guide you through the product installation process.*

**WE HAVE  
SOLUTIONS FOR  
EVERY AREA OF  
YOUR FACILITY!**

**ELECTROLYTE FILLING AREA**

Chemical and stain-resistant floors that follow ISO 7 standards and provide higher electrostatic discharge properties.

**BAKING OVENS**

Systems that can withstand thermal shock and thermal cycling while also being easy to clean.

**STANDING & AGING**

A seamless easy-to-clean flooring system that provides additional strength while making cleaning a less laborious job.

**CHEMICAL STORAGE**

Interior and exterior protection for tank farm and chemical storage areas that are reinforced with engineered elements to prevent penetration of harmful solvents into the ground.

**EXTERIOR  
SHIPPING DOCK**

Impact, abrasion and chemical resistant flooring system that withstands constant forklift traffic as well as improves cleanability.

**FINISHED GOODS**

Impact, abrasion and chemical resistant flooring system that withstands constant foot, wheeled and forklift traffic as well as improves cleanability.

**MODULE ASSEMBLY  
& PACKAGING WAREHOUSE**

Impact, abrasion and chemical resistant flooring system that withstands constant foot and wheeled traffic as well as improves cleanability.

**REWORKING**

A powerful and high-strength system with increased impact-resistant properties and remains easy to clean.



## ELECTRIC VEHICLE FLOORS BEFORE THEY HIT THE ROAD

The “marriage” phase of EVs, when the battery meets the body is an extremely crucial stage of electric car manufacturing. During this phase, heavy machinery such as the AGV (Automated Guided Vehicle) is used and the floor is under intense pressure. Stonhard provides durable floors with high compressive strength to withstand pressure and impact caused by heavy equipment and machinery in areas such as:

- Vehicle Manufacturing Areas
- Body Shop
- Painting and Coating Areas
- General Assembly Areas
- Inspection Labs
- Material Sorting Centre





**CORRIDOR**  
Stonglaze

### WALL SYSTEMS WITH SMOOTH FINISH

Smooth and seamless, our Stonglaze wall systems resist splashes, spills, fumes and abrasion. These formulations can be applied over concrete, block, cement board or drywall and are expressly designed for hygienic environments. Expert formulations offer huge returns on investment in automotive battery manufacturing facilities as they provide no room for particles to bond and create a spark, offering a complete hygienic and seamless experience.



**WAREHOUSE**  
Curbs

### HYGIENIC WALL PROTECTION FROM OUR BUSINESS PARTNER

Stonhard has partnered with a business partner to maximize technology, creating wall systems that protect battery manufacturing facilities. There are no cavities behind the skirting boards or curbs, providing a hygienic, rounded transition between the floor and curbs. This means there will be no place for germs and bacteria to develop. Joints are finished with a unique, advanced germ-free hygienic sealant and installation is quick and easy. Stonhard's chemical-resistant, seamless floors and the curbs are a natural fit, giving your facility a long-term, turnkey solution.

### STONHARD LINING SYSTEMS

Stonhard's high-performing resin chemistries provide exceptional lining protection for ultra-corrosive environments and perform under extreme physical conditions. Our Stonchem lining systems have excellent resistance to concentrated sulfuric acids, hydrofluoric acid, chlorinated solvents and caustics as well as oxidizers such as concentrated nitric and chromic acid.



**PACKAGING & DISTRIBUTION**  
Stonchem



## SUSTAINABILITY IS OUR DUTY NOT A DESIRE

Earth is the one thing we all have in common and the greatest threat to our planet is the belief that someone else will save it. Unlike many other flooring products, epoxy floors become a part of your building's structure, so they won't end up in a landfill after their long life or when a change is desired. Our Research and Development teams are always working diligently behind the scenes to integrate sustainability into all our products and projects.

At Stonhard, we utilize sustainable and rapidly renewable materials to ensure we're doing our part in maintaining a healthy environment. Flooring solutions like Stonclad GR are produced with 25% recycled glass fillers whereas Stonclad G2 and Stonblend GSI-G utilize recycled glass and plant-based resins. Our floors can also be considered eco-friendly based on the disposal of the materials upon replacement. Unlike many other products, seamless floors are part of the building's very structure and make them an optimal choice for electric vehicle manufacturing plants.

### **BENEFITS AT A GLANCE**

- Making a commitment to a healthier planet
- Meeting regulations and low emissions criteria
- Promoting the use of recycled or renewable materials

We are also proud members of the Green Building Council and will work with you to reduce your carbon footprint and achieve your LEED certification.

# WE ARE YOUR SINGLE POINT OF CONTACT WITH AN INDUSTRY-LEADING REPUTATION YOU CAN TRUST

## RELATIONSHIPS

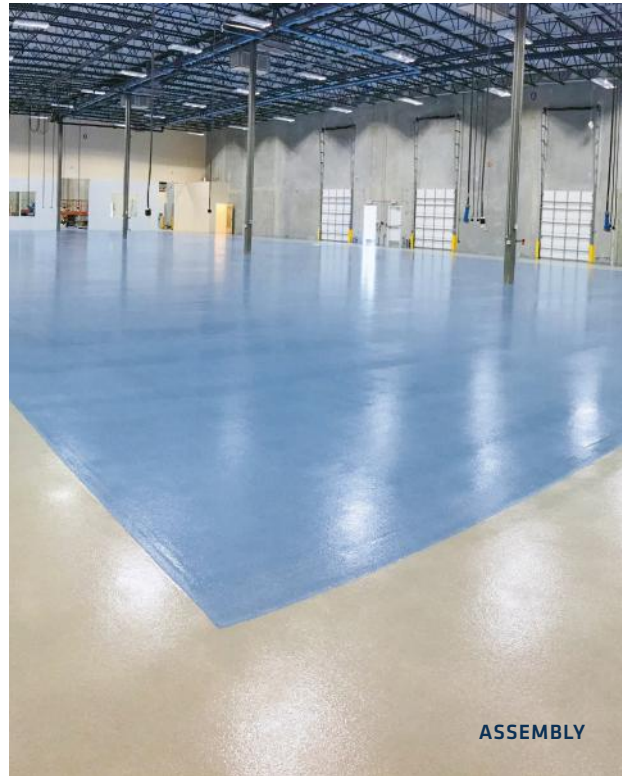
Our partnership approach and the direct sales force will provide you with an easily accessible single point of contact. Think of our local Territory Manager and our Architectural Engineering group as your product, technical experts and project managers, taking you from product selection to final walk through. Stonhard also offers extensive resources and global account teams, working collectively with you to bring long-term solutions.

## RESPONSIBILITY

Our broad range of high-performance GMP-compliant products and processes are designed to handle the most demanding battery manufacturing and automotive environments and are vetted for stringent safety protocols. All our installation crews are OSHA compliant (ISO 45001). With our ISO 45001-certificate we meet the ISO Health & Safety standard on site. Our safety-conscious crews work with PPE, HEPA filters and site safety documentation is readily accessible to all on-site and off-site personnel to maintain the highest safety standards. We are real-time problem solvers, ISO 9001-certified and take responsibility for products and installation.

## REPUTATION

We understand that you rely on industry partners you can trust for your facilities. Stonhard is proud of its renowned reputation and highly personalized approach to communication and service. We have cultivated dependable, professional relationships with clients who operate in some of the most demanding of environments. With more than 100 years of technical engineering, real-time problem solving, and installation experience, there's no challenge we can't handle.



# THE STONHARD DIFFERENCE

A century solving customers' problems, one point of contact, direct sales with complete design support, project management, technical support and global accounts. No matter where you are in the world, the end result is the same - consistent products and installation.



# STONHARD®

STONHARD.COM



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