



**SHERWIN-WILLIAMS
MANUFACTURING FACILITY**

CASE STUDY

CMCE LIGHTNING SUPPRESSION SYSTEM

CASE STUDY

Sherwin-Williams Manufacturing Facility - Bowling Green, KY

Industrial Lightning Protection for Flammable Storage Infrastructure

Project Overview

The Sherwin-Williams Coil Coatings plant in Bowling Green, Kentucky is a specialized manufacturing facility dedicated to producing liquid industrial coatings for the building and construction markets. The facility has served the Bowling Green community for more than 32 years and continues to support customers worldwide through advanced manufacturing capabilities and global distribution operations.

As part of a facility expansion initiative, Sherwin-Williams added new chemical storage infrastructure containing highly flammable materials. With the addition of these critical assets, the company sought a proactive lightning protection strategy to help reduce operational risk and support long-term facility resilience.

Unlike traditional lightning protection systems that are designed to intercept and conduct lightning after strike formation occurs, Sherwin-Williams was interested in exploring a prevention-focused approach centered on lightning strike suppression technology.

To support this objective, Encore Land & Sea installed two CMCE-120 Lightning Suppression Systems to provide protection coverage over critical operational areas and flammable storage infrastructure.

Facility Highlights

- Specialized manufacturer of liquid industrial coatings for building and construction applications
- Operational in Bowling Green, Kentucky for more than 32 years
- Advanced automation systems integrated to replace manual mixing processes
- On-site warehouse supporting direct distribution to customers worldwide
- Ongoing manufacturing expansion supporting operational growth

Project Objectives

Sherwin-Williams sought a lightning protection solution capable of:

- Protecting newly expanded manufacturing infrastructure
- Reducing lightning-related operational risk
- Supporting protection of flammable storage tank areas
- Minimizing exposure to lightning-related downtime and damage
- Implementing a modern alternative to traditional lightning rod systems
- Enhancing operational continuity for critical manufacturing processes

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The Challenge

Manufacturing facilities that store and process flammable materials face increased exposure to lightning-related hazards. Severe atmospheric electrical activity can create significant risks for critical infrastructure, personnel, production operations, and valuable assets.

Potential consequences of lightning-related events can include:

- Operational disruption
- Equipment damage
- Communications interruption
- Fire risk
- Production downtime
- Infrastructure vulnerability

For Sherwin-Williams, protecting newly added chemical storage tanks was a key priority as facility operations expanded.

The Solution

Encore Land & Sea designed and implemented a lightning suppression strategy utilizing CMCE technology.

Installed Equipment

- (2) CMCE-120 Lightning Suppression Systems
- Integrated grounding and bonding infrastructure
- Strategic placement to maximize protection coverage across critical operational zones

The CMCE system was selected for its prevention-focused approach, which is designed to help reduce the atmospheric electrical conditions associated with lightning strike formation around protected infrastructure.

By deploying two CMCE-120 units, Encore Land & Sea provided protection coverage for critical manufacturing assets and flammable storage tank infrastructure.

Project Results

The completed installation provided modern lightning suppression coverage for critical plant infrastructure while supporting Sherwin-Williams' commitment to operational reliability and facility resilience.

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Project Outcomes

- Two CMCE-120 Lightning Suppression Systems successfully installed
- Protection extended to newly expanded manufacturing infrastructure
- Flammable storage tank areas covered by a prevention-focused lightning protection strategy
- Enhanced support for operational continuity and facility resilience
- Reduced exposure to lightning-related operational interruptions

Conclusion

As industrial facilities continue to expand and modernize, lightning protection strategies must evolve alongside them.

For Sherwin-Williams' Bowling Green Coil Coatings facility, protecting critical manufacturing operations and flammable storage infrastructure required a proactive approach focused on prevention, reliability, and long-term operational continuity.

Through the installation of two CMCE-120 Lightning Suppression Systems, Encore Land & Sea delivered a modern lightning suppression solution designed to help protect critical assets and support uninterrupted operations.

Modern Industrial Infrastructure Requires Modern Lightning Protection Strategies

Prevent lightning strike formation. Protect critical operations.

