

Concrete Protection System 700 Series

Advanced Concrete Protection Systems for Industrial Environments

The Sprayglass 700 Series Concrete Protection System is a high-performance protective lining and coating solution specifically developed to preserve, reinforce, and protect concrete infrastructure operating within aggressive industrial environments. Engineered to deliver exceptional resistance against chemical attack, moisture ingress, abrasion, and long-term structural deterioration, the 700 Series system provides durable protection for concrete assets exposed to demanding conditions.

Concrete structures within industrial facilities are frequently subjected to harsh chemicals, wastewater exposure, environmental contamination, physical wear, and continual operational stress. Without suitable protection, these conditions can lead to concrete degradation, cracking, surface erosion, and costly structural failures.

The Sprayglass 700 Series system is designed to create a durable barrier that protects concrete substrates from corrosive environments while supporting long-term infrastructure integrity, operational reliability, and reduced maintenance requirements.

Suitable for a wide range of industrial sectors, the system is commonly used within chemical processing plants, wastewater treatment facilities, bunded containment areas, industrial flooring applications, tanks, chambers, and associated infrastructure requiring specialist concrete protection.

What Is a Concrete Protection System?

Concrete protection systems are specialist coatings and lining solutions designed to shield concrete surfaces from environmental deterioration, chemical attack, moisture penetration, and operational damage.

Although concrete is widely used throughout industrial infrastructure due to its strength and versatility, unprotected concrete can deteriorate rapidly when exposed to aggressive chemicals, acidic environments, wastewater, hydrocarbons, salts, and freeze-thaw conditions.

Over time, this degradation can compromise structural integrity, increase maintenance costs, and shorten asset lifespan.

The Sprayglass 700 Series Concrete Protection System helps prevent these issues by forming a highly durable and chemically resistant protective barrier across concrete surfaces.

Key performance benefits include:

- Protection against chemical attack
- Resistance to moisture ingress
- Improved abrasion resistance
- Enhanced durability and lifespan
- Reduced concrete deterioration
- Long-term infrastructure preservation
- Lower maintenance requirements
- Improved operational reliability

Key Features of the Sprayglass 700 Series

The Sprayglass 700 Series is developed for demanding industrial environments where concrete infrastructure requires dependable long-term protection.

Exceptional Chemical Resistance

Concrete assets operating within industrial environments are often exposed to corrosive chemicals, acids, alkalis, wastewater, and aggressive process materials. The 700 Series system provides reliable resistance against chemical degradation and surface deterioration.

Moisture and Water Ingress Protection

Moisture penetration is one of the leading causes of concrete deterioration. The Sprayglass 700 Series creates a protective barrier that helps prevent water ingress and supports long-term substrate preservation.

Enhanced Abrasion Resistance

Industrial concrete surfaces are frequently subjected to operational wear, mechanical stress, and abrasive conditions. The system enhances surface durability and resistance to physical damage.

Long-Term Concrete Preservation

The 700 Series system helps extend the operational lifespan of concrete structures by protecting against corrosion-related deterioration and environmental degradation.

High Durability in Aggressive Environments

Designed for severe industrial operating conditions, the system delivers dependable performance within environments where conventional protective coatings may fail.

Excellent Adhesion to Concrete Substrates

The system is engineered to achieve strong adhesion to suitably prepared concrete surfaces, supporting long-term coating performance and infrastructure reliability.

Typical Applications for the 700 Series Concrete Protection System

The Sprayglass 700 Series is suitable for a wide variety of industrial and infrastructure applications requiring specialist concrete protection.

Wastewater Treatment Infrastructure

Wastewater treatment plants and associated infrastructure are regularly exposed to corrosive substances, biological contamination, and high moisture levels. The 700 Series system helps protect channels, tanks, chambers, and containment structures from long-term deterioration.

Chemical Processing Facilities

Concrete structures within chemical manufacturing and processing environments require dependable protection against aggressive chemicals and corrosive operating conditions.

Bunded Containment Areas

Containment bunds and interceptor systems require durable protective barriers capable of preventing chemical ingress and preserving concrete integrity.

Industrial Flooring Systems

Industrial floors are subjected to heavy operational traffic, chemical exposure, and physical wear. The 700 Series system enhances durability and long-term performance.

Concrete Tanks and Chambers

Concrete tanks, pits, and process chambers exposed to wastewater, chemicals, or moisture can benefit from advanced protective lining systems designed to reduce substrate deterioration.

Infrastructure and Utility Assets

The system can also be used across utility infrastructure, process facilities, and operational environments requiring reliable concrete preservation.

Benefits of Industrial Concrete Protection Systems

Reduced Infrastructure Deterioration

Unprotected concrete can deteriorate rapidly under aggressive operating conditions. The Sprayglass 700 Series helps minimise degradation and preserve infrastructure integrity.

Lower Maintenance Costs

Concrete repairs and infrastructure replacement can result in substantial operational disruption and expense. Installing a durable protective system helps reduce ongoing maintenance requirements and lifecycle costs.

Improved Asset Longevity

Protective concrete lining systems support long-term infrastructure performance by shielding substrates from corrosion, chemical exposure, and moisture damage.

Increased Operational Reliability

Maintaining infrastructure integrity is essential for operational continuity, compliance, and safety. Reliable concrete protection systems help reduce the risk of structural failure and operational downtime.

Enhanced Environmental Protection

By preventing chemical ingress and substrate deterioration, the system also supports improved environmental containment and infrastructure resilience.

Industries Using Sprayglass 700 Series Concrete Protection Systems

The Sprayglass 700 Series is utilised across multiple sectors requiring specialist industrial concrete protection and corrosion prevention solutions.

Water and Wastewater Treatment

Treatment plants require reliable protective systems capable of withstanding corrosive wastewater environments and continual moisture exposure.

Chemical Manufacturing

Chemical facilities depend on durable concrete protection systems to maintain safe and reliable operational infrastructure.

Industrial Processing and Manufacturing

Industrial production environments expose infrastructure to physical wear, chemicals, and operational stress, making durable concrete protection essential.

Energy and Utilities

Infrastructure within the energy and utilities sectors requires long-term protection against environmental exposure and operational deterioration.

Infrastructure and Civil Engineering

Concrete protection systems are also widely used within infrastructure and civil engineering applications requiring enhanced durability and long-term asset preservation.

Why Choose the Sprayglass 700 Series?

The Sprayglass 700 Series Concrete Protection System is engineered for industrial operators requiring dependable long-term protection for critical concrete infrastructure.

By combining specialist resin technology with advanced protective performance, the system delivers reliable resistance against chemical attack, moisture ingress, abrasion, and environmental deterioration.

Key advantages include:

- Specialist industrial concrete protection
- Excellent chemical and corrosion resistance
- Long-term infrastructure preservation
- Reduced maintenance and repair costs
- Enhanced substrate durability
- Reliable performance in aggressive environments
- Suitable for multiple industrial applications
- Supports long-term operational reliability

Specialist Concrete Protection Solutions

The Sprayglass 700 Series Concrete Protection System provides advanced protection for concrete infrastructure operating within demanding industrial environments.

Designed to support long-term durability, infrastructure preservation, and operational reliability, the system delivers dependable performance across chemical, wastewater, manufacturing, utilities, and industrial sectors.

For more information about Sprayglass concrete protection systems, industrial lining solutions, or specialist corrosion protection applications, contact the team today.