

## **Glass Flake Coating Systems 400/500 Series**

### **High Performance Glass Flake Coating Systems**

Sprayglass Glass Flake Coating Systems 400/500 Series are advanced protective lining and coating solutions designed to provide exceptional corrosion resistance, chemical protection, and long-term durability across demanding industrial environments. Developed for use in aggressive service conditions, these specialist systems combine high-performance resin technology with glass flake reinforcement to create a robust barrier against chemical attack, abrasion, moisture ingress, and environmental degradation.

Used extensively across industrial processing plants, chemical manufacturing facilities, water treatment infrastructure, containment areas, tanks, vessels, pipelines, and bunded environments, Sprayglass 400 and 500 Series systems deliver reliable protection for substrates exposed to highly corrosive operating conditions.

Manufactured to exacting standards, these systems are engineered to extend asset lifespan, reduce maintenance requirements, minimise operational downtime, and support long-term infrastructure integrity.

### **What Are Glass Flake Coating Systems?**

Glass flake coating systems are specialist protective coatings formulated using resin systems reinforced with finely milled glass flakes. Once applied and cured, the overlapping glass flake structure creates an extremely dense and impermeable barrier that significantly reduces the penetration of liquids, chemicals, vapours, and corrosive substances.

This layered reinforcement technology enhances the overall mechanical strength and chemical resistance of the coating while also improving durability under harsh industrial conditions. Compared to traditional coating systems, glass flake linings provide:

- Superior chemical resistance
- Enhanced corrosion protection
- Increased abrasion resistance
- Improved impermeability
- Long-term durability
- Reduced maintenance requirements
- Extended asset service life
- Excellent adhesion to prepared substrates

The Sprayglass 400 and 500 Series systems are specifically developed to perform within highly demanding operational environments where long-term protection and reliability are essential.

## Sprayglass 400 Series Glass Flake Coating Systems

The Sprayglass 400 Series is a spray-grade glass flake coating system designed for efficient application and high-performance corrosion protection across a wide range of industrial substrates and structures.

This system is commonly selected for large surface areas and complex geometries where spray application provides improved installation efficiency and consistent coating thickness.

### Key Features of the 400 Series

- Spray-applied glass flake reinforced coating system
- High resistance to corrosive chemicals and aggressive environments
- Excellent barrier protection against moisture and chemical ingress
- Durable finish suitable for industrial applications
- Suitable for steel, concrete, and prepared substrates
- Designed for long-term asset protection
- Reduces lifecycle maintenance costs
- Provides excellent adhesion and surface coverage

### Typical Applications

The Sprayglass 400 Series is suitable for a wide variety of industrial and infrastructure applications, including:

- Chemical storage tanks
- Process vessels
- Bunded containment areas
- Water treatment infrastructure
- Industrial flooring and containment zones
- Pipework and associated infrastructure
- Secondary containment systems
- Wastewater treatment facilities
- Industrial process environments
- Marine and offshore structures

Its spray-grade characteristics make the system particularly effective for large-scale industrial coating projects where efficiency and consistent coverage are essential.

## **Sprayglass 500 Series Glass Flake Coating Systems**

The Sprayglass 500 Series is a trowel-applied glass flake coating and lining system developed for applications requiring heavier-duty protection, increased film build, and enhanced mechanical durability.

This system is designed for environments subjected to severe chemical exposure, physical wear, and aggressive operating conditions where additional reinforcement and coating thickness are required.

### **Extended Asset Lifespan**

Glass flake coating systems help preserve tanks, vessels, containment areas, and infrastructure components by preventing corrosion-related deterioration. This supports long-term asset preservation and improved infrastructure lifecycle performance.

### **High Durability in Demanding Environments**

Both the 400 and 500 Series systems are designed to withstand industrial operating conditions where conventional coatings may fail. Their durability makes them suitable for continuous exposure to moisture, chemicals, abrasion, and operational wear.

## **Applications Across Multiple Industries**

Sprayglass Glass Flake Coating Systems are utilised across a broad range of industries requiring specialist corrosion protection and industrial lining solutions.

### **Chemical Industry**

Chemical processing facilities require durable protective systems capable of resisting aggressive substances and maintaining containment integrity. Sprayglass systems help protect critical infrastructure within chemical manufacturing and storage environments.

### **Water and Wastewater Treatment**

Treatment plants and wastewater infrastructure are frequently exposed to corrosive materials, moisture, and harsh operating conditions. Glass flake coatings provide long-term protection for tanks, channels, containment areas, and associated assets.

### **Industrial Manufacturing**

Manufacturing environments often involve heavy operational demands, corrosive substances, and abrasive conditions. Sprayglass systems support infrastructure reliability and long-term operational performance.

### **Energy and Utilities**

Infrastructure within the energy and utilities sectors requires dependable corrosion protection to maintain safety, compliance, and operational continuity.

### **Marine and Offshore Environments**

Marine environments present severe corrosion risks due to saltwater exposure, humidity, and aggressive atmospheric conditions. Glass flake reinforced systems provide enhanced durability and environmental resistance.

## Why Choose Sprayglass Glass Flake Systems?

Sprayglass coating systems are developed for industrial environments where performance, durability, and long-term protection are essential. The 400 and 500 Series systems provide flexible application solutions suitable for a wide range of operational requirements.

Whether the project requires spray-grade efficiency for large surface areas or heavy-duty reinforced protection for severe operating conditions, Sprayglass systems deliver dependable performance across demanding industrial sectors.

## Key advantages include:

- Specialist industrial corrosion protection
- Proven glass flake reinforcement technology
- Long-term chemical resistance
- Reduced lifecycle maintenance costs
- High-performance protective lining systems
- Suitable for complex industrial environments
- Compatible with a wide range of infrastructure applications
- Designed for long-term operational reliability

## Specialist Industrial Coating Solutions

Sprayglass Glass Flake Coating Systems 400/500 Series provide advanced protective solutions for industrial operators seeking reliable corrosion resistance, infrastructure preservation, and long-term asset protection.

By combining specialist resin technology with reinforced glass flake systems, Sprayglass delivers durable lining and coating solutions capable of performing within some of the most demanding industrial environments.

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