

PROJECT 06

CRITICAL EQUIPMENT
RESTORATION
CASE STUDY

EXTENDING SERVICE LIFE. RESTORING PERFORMANCE.
DELIVERING LONG-TERM RELIABILITY.

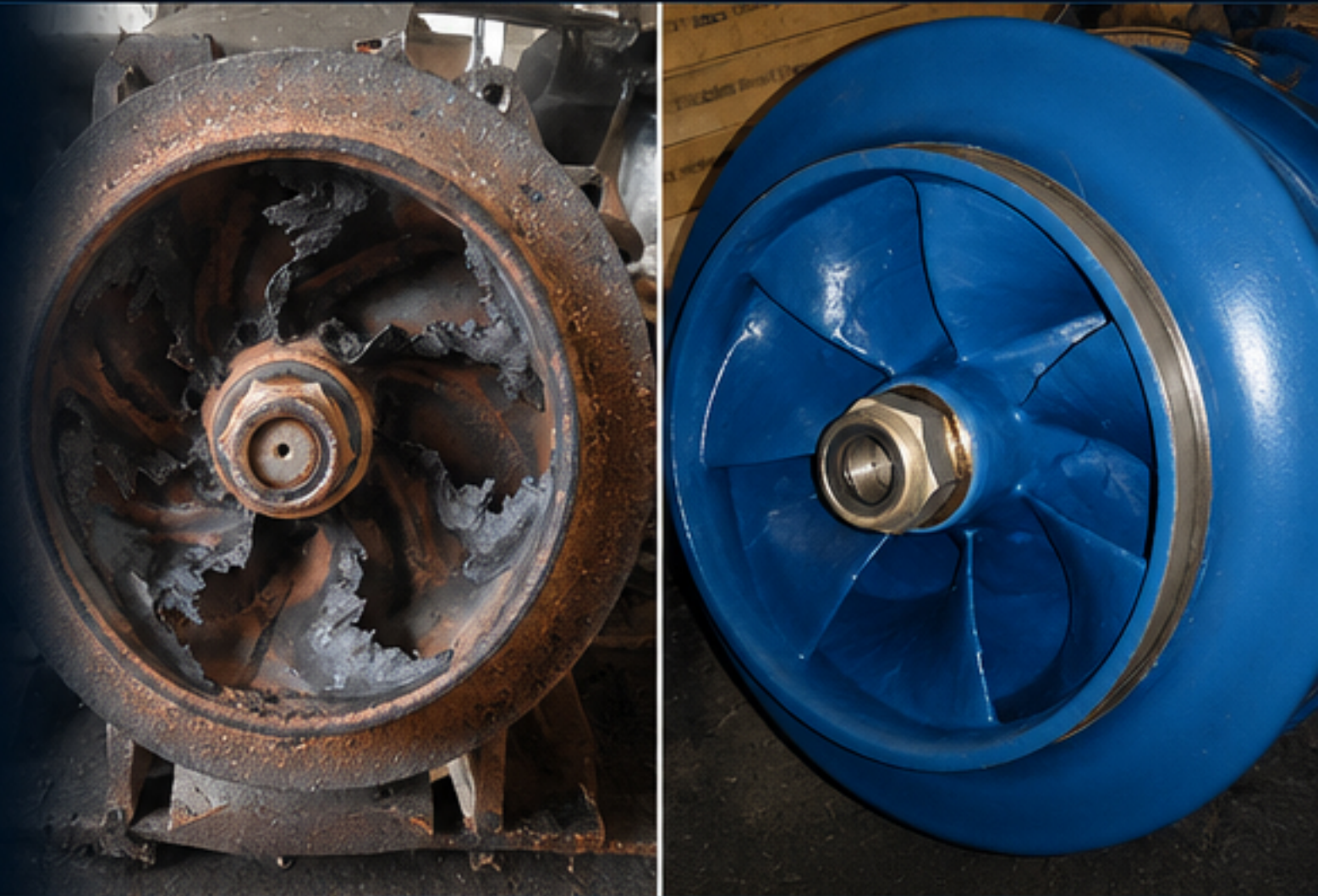
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CORROSION
PROTECTION
- 

EXTENDED
SERVICE LIFE
- 

ENHANCED
PERFORMANCE
- 

SUSTAINABLE
SOLUTION



PROJECT OVERVIEW

Critical rotating equipment such as impellers, pumps and valves are subjected to corrosive fluids, abrasion, cavitation and chemical attack. VERTEX Blue Seal Coating System restores damaged surfaces, rebuilds lost protection and delivers superior resistance to extend equipment life and reduce downtime.

- 

PROJECT CATEGORY

: Critical Equipment Restoration
- 

EQUIPMENT TYPE

: Impeller (Centrifugal Pump)
- 

APPLICATION AREA

: Pumps, Turbines, Rotating Equipment
- 

COATING SYSTEM

: Blue Seal Protective Coating System
- 

ENVIRONMENT

: Chemical Exposure / Abrasion / Cavitation
- 

OBJECTIVE

: Restore Surface Integrity, Improve Efficiency, Extend Service Life

BEFORE



Severe corrosion, pitting, cavitation damage and material loss.

AFTER



Restored surface, superior coating protection and like-new performance.

COATING APPLICATION PROCESS

- 01



SURFACE
PREPARATION

Abrasive blast cleaning to remove rust, scale and contaminants.
- 02



BASE COAT
APPLICATION

High-build epoxy base coat for adhesion and corrosion protection.
- 03



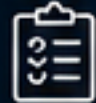
REBUILD & REPAIR

Rebuild damaged areas and restore lost material thickness.
- 04



TOP COAT
APPLICATION

High performance finish coat for chemical & abrasion resistance.
- 05



QUALITY
INSPECTION

DFT measurement and visual inspection for quality assurance.
- 06



RESTORED & PROTECTED

Equipment restored and ready for reliable operation.

KEY BENEFITS

- Restores equipment to like-new condition
- Resists corrosion, abrasion and cavitation
- Improves efficiency and operating performance
- Extends service life and reduces downtime
- Reduces maintenance and replacement costs
- Proven performance in harsh environments

TYPICAL RESTORATION PROJECTS



PROJECT 01

MARINE &
OFFSHORE

HIGH PERFORMANCE COATING SOLUTIONS
FOR MARINE ASSETS

- 

SUPERIOR
PROTECTION
- 

EXTENDED
SERVICE LIFE
- 

REDUCED
DOWNTIME
- 

ENVIRONMENTALLY
FRIENDLY

PROJECT OVERVIEW

Marine and offshore assets operate in some of the world's harshest environments. VERTEX Blue Seal Protective Coating System delivers advanced corrosion protection against saltwater, chemicals, abrasion and impact.

Our coating solutions are engineered to extend asset life, reduce maintenance costs and ensure safe, reliable operation in demanding conditions.

- 

PROJECT CATEGORY
- :
- Marine & Offshore
- 

ASSET TYPE
- :
- Commercial Vessel
- 

APPLICATION AREA
- :
- Hull, Underwater Area, Deck, Structures
- 

COATING SYSTEM
- :
- Blue Seal Protective Coating System
- 

ENVIRONMENT
- :
- Saltwater / Marine Atmosphere / UV Exposure
- 

OBJECTIVE
- :
- Long-Term Corrosion Protection & Durability



APPLICATION IN PROGRESS



AIRLESS SPRAY APPLICATION



BEFORE



AFTER

COATING APPLICATION PROCESS

- 01



SURFACE
PREPARATION

Abrasive blast cleaning to the approved preparation standard.
- >
- 02



BASE COAT
APPLICATION

High-build epoxy layer applied for adhesion and corrosion protection.
- >
- 03



TOP COAT
APPLICATION

Performance finish coat selected for the defined marine exposure.
- >
- 04



QUALITY
INSPECTION

Dry-film-thickness measurement and visual quality review.
- >
- 05



PROJECT
COMPLETION

Final protective system prepared for service.
- >
- 06



IN SERVICE
PROTECTION

Long-term protection delivering performance and reliability.

- 

CORROSION
PROTECTION

Excellent barrier against saltwater and chemicals
- 

MARINE
ENVIRONMENT

Engineered for harsh marine conditions
- 

ABRASION
RESISTANCE

High mechanical strength and impact resistance
- 

LONG SERVICE
LIFE

Designed for long term durability and reliability
- 

THIRD-PARTY
TESTED

Independently tested to ASTM & IMO standards



HULL COATING



DECK & STRUCTURES



SPRAY APPLICATION



WORK COMPLETED

PROJECT 02

INDUSTRIAL EQUIPMENT
RESTORATION

ADVANCED COATING SYSTEMS FOR
EQUIPMENT RELIABILITY & PERFORMANCE

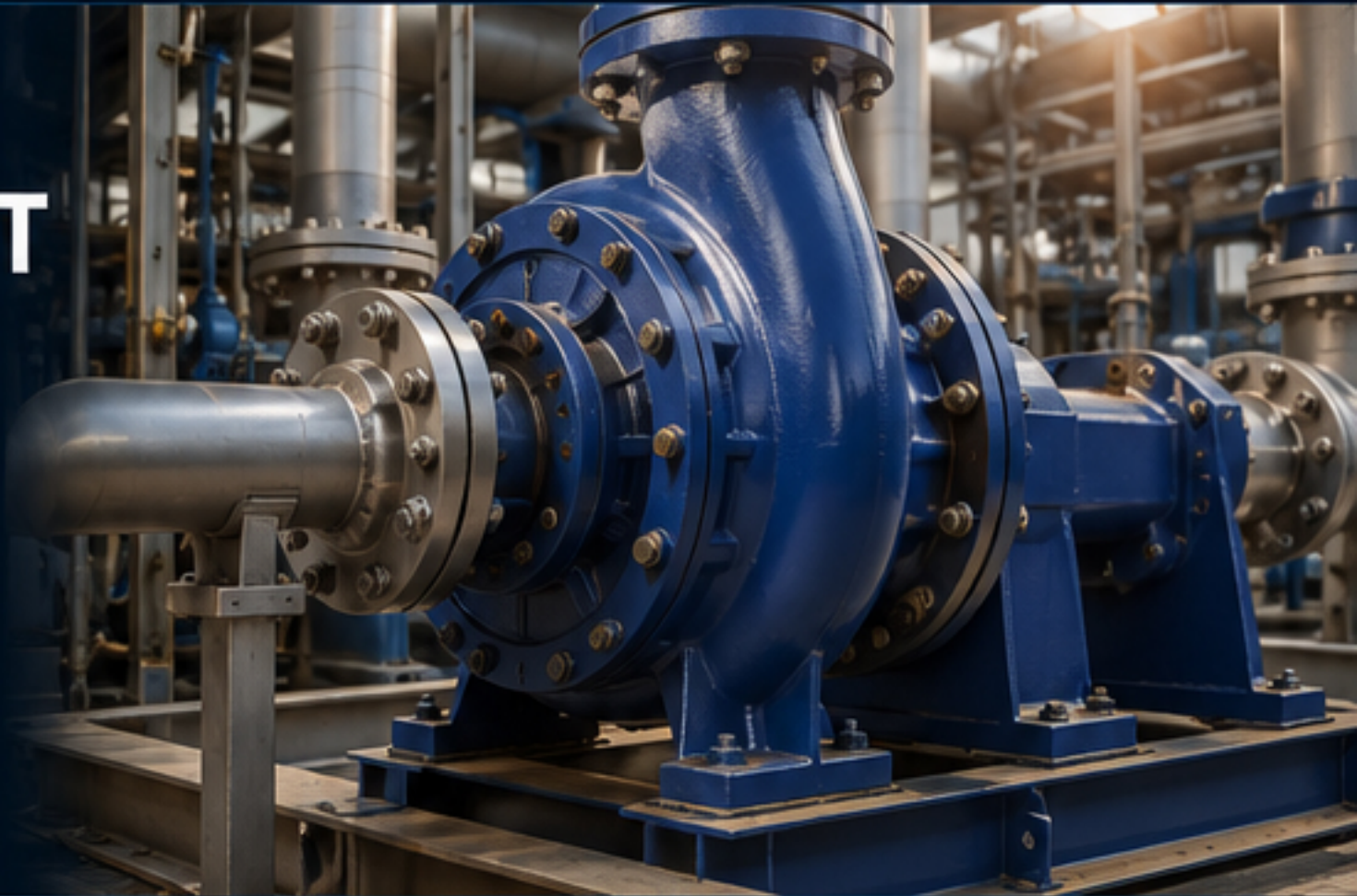
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CORROSION
PROTECTION
- 

EXTENDED
SERVICE LIFE
- 

RESTORED
PERFORMANCE
- 

REDUCED
MAINTENANCE



PROJECT OVERVIEW



Industrial equipment is exposed to severe operating conditions including corrosion, abrasion, chemicals and high temperatures. VERTEX Blue Seal Coating System restores damaged equipment surfaces and delivers long-term protection to extend service life, improve efficiency and reduce life cycle costs.

- 

PROJECT CATEGORY

:

Industrial Equipment Restoration
- 

EQUIPMENT TYPES

:

Pumps, Valves, Heat Exchangers, Flanges, Pipe Components, Fans, Tanks
- 

APPLICATION AREA

:

Chemical Plants, Refineries, Power Plants, Water Treatment, Manufacturing
- 

COATING SYSTEM

:

Blue Seal Protective Coating System
- 

ENVIRONMENT

:

Chemical Exposure / High Temperature / Abrasion / Humidity
- 

OBJECTIVE

:

Restore Equipment Integrity, Extend Service Life and Improve Operational Reliability



SURFACE PREPARATION
Abrasive blast cleaning to the required standard.



COATING APPLICATION
High-build epoxy base coat for adhesion and corrosion protection.



TOP COAT APPLICATION
High performance finish coat for chemical resistance and durability.

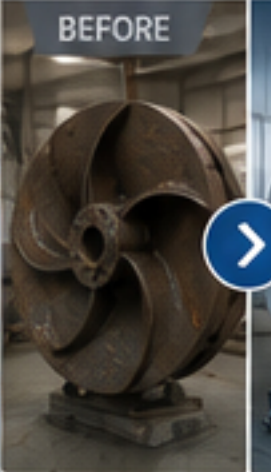


QUALITY INSPECTION
Dry-film-thickness measurement and visual quality inspection.

PUMP CASING



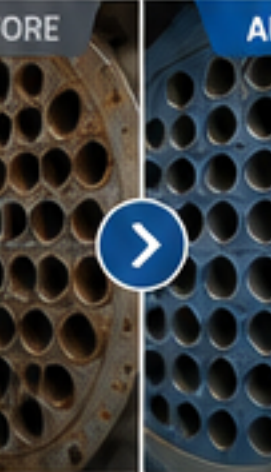
IMPELLER



VALVE BODY



HEAT EXCHANGER TUBE



FLANGE



01



SURFACE PREPARATION
Remove rust, scale, oil and contaminants.

02



BASE COAT APPLICATION
Apply high-build epoxy base coat.

03



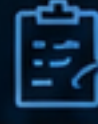
TOP COAT APPLICATION
Apply performance finish coat.

04



CURING
Allow coating to cure for maximum performance.

05



QUALITY INSPECTION
DFT measurement and visual inspection.

06



EQUIPMENT READY
Equipment restored and ready for service.

KEY BENEFITS

- ✓ Excellent corrosion and chemical resistance
- ✓ Resists abrasion, impact and aggressive media
- ✓ Restores equipment to like-new condition
- ✓ Extends service life and reduces downtime
- ✓ Cost-effective maintenance solution
- ✓ Proven performance in harsh environments

TYPICAL APPLICATIONS



PUMPS & PIPING



VALVES



HEAT EXCHANGERS



TANKS & VESSELS



PIPE COMPONENTS

PROJECT 03

STORAGE TANKS &
SECONDARY CONTAINMENT

ADVANCED COATING SOLUTIONS FOR TANKS,
CONTAINMENT AREAS & SPILL PROTECTION



CORROSION
PROTECTION



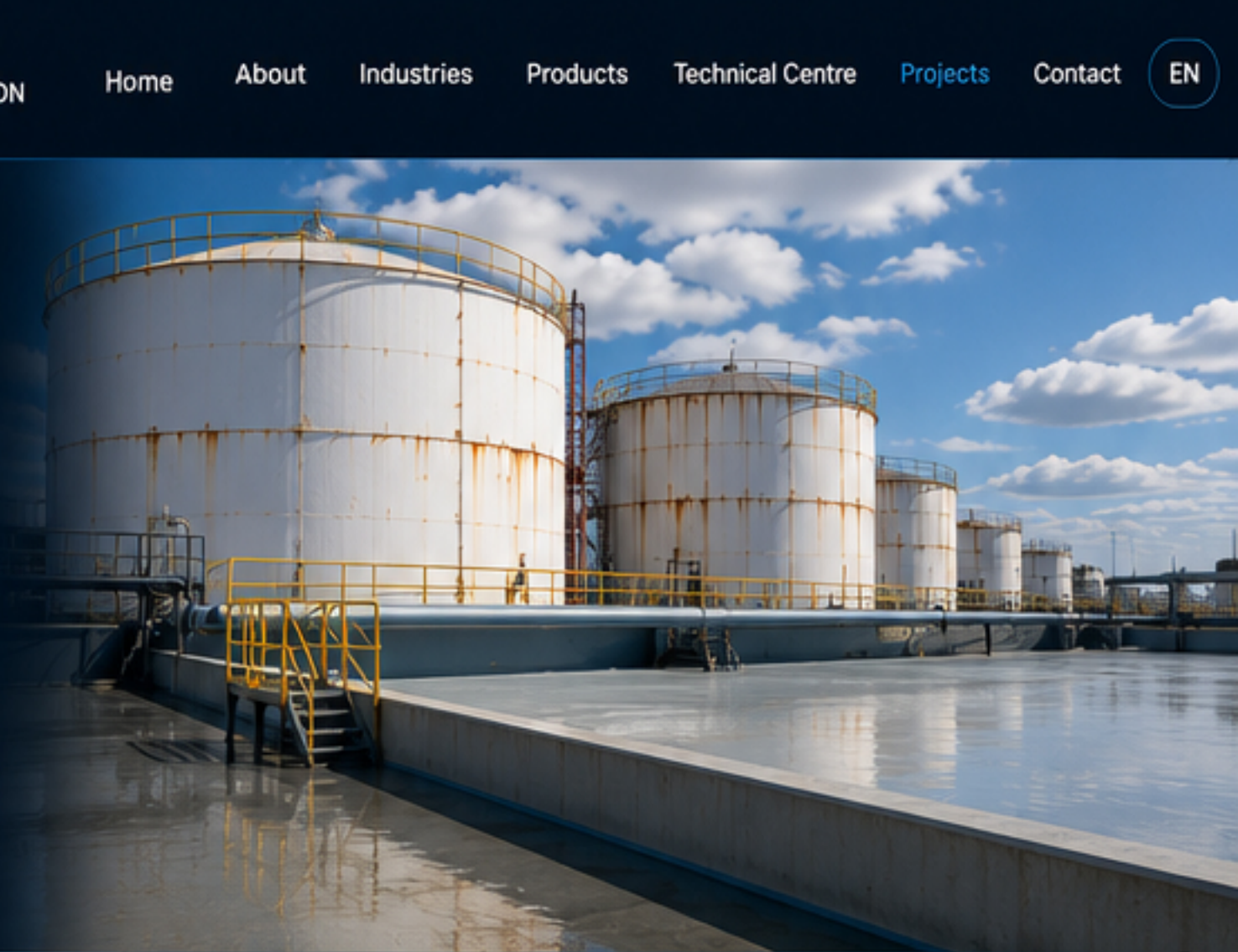
EXTENDED
SERVICE LIFE



REDUCED
MAINTENANCE



CHEMICAL & SPILL
RESISTANT



PROJECT OVERVIEW



Storage tanks and secondary containment areas are constantly exposed to corrosive chemicals, spills, moisture and harsh weather conditions. VERTEX Blue Seal Coating System provides a seamless, high-build protective barrier that prevents corrosion, resists chemical attack and protects concrete and steel structures for long-term performance and safety.



PROJECT CATEGORY

: Storage Tanks & Secondary Containment



ASSET TYPES

: Aboveground Tanks, Containment Walls, Concrete Bunds, Dikes, Sumps



APPLICATION AREA

: Tank Exteriors & Roofs, Bottoms, Walls, Secondary Containment, Concrete Floors



COATING SYSTEM

: Blue Seal Protective Coating System



ENVIRONMENT

: Chemical Exposure / Moisture / UV / Spills / Industrial Atmosphere



OBJECTIVE

: Prevent Leaks & Corrosion, Protect Structures, Ensure Environmental Compliance



1 SURFACE PREPARATION

Abrasive blast cleaning to the approved standard.



2 PRIMER APPLICATION

High-build epoxy primer for maximum adhesion.



3 COATING APPLICATION

Blue Seal base coat applied for corrosion protection.



4 TOP COAT APPLICATION

High performance finish coat for chemical and UV resistance.



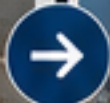
5 QUALITY INSPECTION

DFT measurement and visual quality assurance.



BEFORE

Corrosion, leaks, chemical stains and damaged concrete.



AFTER

Seamless protection, chemical resistance and long-term durability.

COATING APPLICATION PROCESS

01



SURFACE
PREPARATION

Remove rust, scale, oil and contaminants.



02



PRIMER
APPLICATION

Apply high-build epoxy primer for adhesion.



03



BASE COAT
APPLICATION

Apply Blue Seal base coat for protection.



04



TOP COAT
APPLICATION

Apply finish coat for durability and UV resistance.



05



QUALITY
INSPECTION

DFT measurement and visual inspection.



06



PROJECT
COMPLETION

Final protective system ready for service.

KEY BENEFITS

- ✓ Excellent corrosion and chemical resistance
- ✓ Prevents leaks and environmental contamination
- ✓ Resists moisture, UV and harsh weather
- ✓ Extends service life and reduces maintenance
- ✓ Cost-effective long-term protection
- ✓ Proven performance in industrial environments

TYPICAL APPLICATIONS



ABOVEGROUND TANKS



SECONDARY CONTAINMENT



CONCRETE BUNDS & DIKES



SUMPS & PITS



TANK BOTTOMS & ROOFS



PROTECT YOUR ASSETS.
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VERTEX
INFRASTRUCTURE PROTECTION

PROJECT 04

WASTEWATER TREATMENT FACILITIES

PROTECTING CRITICAL INFRASTRUCTURE
IN AGGRESSIVE ENVIRONMENTS



CORROSION
PROTECTION



EXTENDED
SERVICE LIFE



REDUCED
MAINTENANCE



CHEMICAL & ABRASION
RESISTANCE



PROJECT OVERVIEW



Wastewater treatment plants are exposed to highly corrosive chemicals, constant moisture, abrasion, and biological attack. VERTEX Blue Seal Coating System delivers advanced protection for concrete and steel structures, tanks, channels and basins—extending service life, reducing maintenance costs, and ensuring environmental compliance.



PROJECT CATEGORY : Wastewater Treatment Facilities



ASSET TYPES : Tanks, Clarifiers, Channels, Concrete Basins, Pipelines, Steel Structures



APPLICATION AREA : Interior & Exterior Surfaces, Immersion Areas, Splash Zones, Walkways



COATING SYSTEM : Blue Seal Protective Coating System



ENVIRONMENT : Chemical Exposure / High Moisture / Biological Attack / Abrasion



OBJECTIVE : Protect Structures, Prevent Leaks & Corrosion, Ensure Long-Term Reliability

BEFORE



Corrosion, concrete deterioration, leaks and chemical damage.

AFTER



Seamless protection, leak prevention, clean surfaces and extended service life.

TYPICAL APPLICATIONS



CLARIFIERS



AERATION TANKS



CHANNELS & TROUGHS



CHEMICAL TANKS



WALKWAYS & FLOORS



CONCRETE BASINS



EXCELLENT
CORROSION & CHEMICAL
RESISTANCE



PREVENTS LEAKS
AND INFILTRATION



RESISTS ABRASION
AND WEAR IN
HIGH FLOW AREAS



EXTENDS SERVICE LIFE
AND REDUCES
DOWNTIME



COST-EFFECTIVE
LONG-TERM
PROTECTION



PROVEN PERFORMANCE
IN HARSH
ENVIRONMENTS



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VERTEX
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PROJECT 05

INDUSTRIAL FACILITIES PROTECTION

DURABLE COATING SOLUTIONS FOR STRUCTURES & EQUIPMENT



CORROSION PROTECTION



EXTENDED SERVICE LIFE



REDUCED MAINTENANCE



ENHANCED PERFORMANCE



PROJECT OVERVIEW

Industrial facilities include a wide range of assets such as steel structures, pipe racks, equipment, and process buildings that face harsh environments daily.

VERTEX Blue Seal Coating System provides high-performance protection against corrosion, chemicals, abrasion, and UV exposure—extending service life and reducing lifecycle costs.



PROJECT CATEGORY : Industrial Facilities Protection



ASSET TYPES : Steel Structures, Pipe Racks, Equipment, Tanks, Process Buildings



APPLICATION AREA : Exteriors & Interiors, Structural Steel, Piping, Platforms, Equipment Surfaces



COATING SYSTEM : Blue Seal Protective Coating System



ENVIRONMENT : Chemical Exposure / UV / Moisture / Industrial Atmosphere



OBJECTIVE : Prevent Corrosion & Deterioration, Extend Service Life, Reduce Maintenance

BEFORE



Corrosion, rust, coating breakdown and surface deterioration.



AFTER



Seamless protection, corrosion resistance and long-term durability.

TYPICAL APPLICATIONS



STORAGE TANKS



PIPE RACKS & STRUCTURES



PROCESS BUILDINGS



EQUIPMENT & VESSELS



PLATFORMS & WALKWAYS



PIPING SYSTEMS



EXCELLENT CORROSION & CHEMICAL RESISTANCE



RESISTS UV, MOISTURE AND INDUSTRIAL ATMOSPHERE



REDUCES MAINTENANCE AND EXTENDS ASSET SERVICE LIFE



MINIMIZES DOWNTIME AND OPERATIONAL COSTS



IMPROVES AESTHETIC APPEARANCE AND PERFORMANCE



PROVEN PERFORMANCE IN INDUSTRIAL ENVIRONMENTS



PROTECT YOUR FACILITIES.
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