



Innovative Gates, Fences & Handrail Systems

STVS COATING SYSTEMS



ENVIRONMENT TYPES

The speed of corrosion are different base environments in which it is located.
Weather conditions/Atmospheric corrosivity according EN ISO 12944-2 standard:

Category	Exterior	Interior
C1	Very low – Dry, clean environments	Offices, schools, hotels
C2	Mainly rural regions, >20 Km from Sea side	Buildings which are not heated (storage facilities, halls)
C3	Industrial areas and inshore areas of low salinity, > 20 Km from Sea side	Production halls to facilities (laundries, breweries, dairies)
C4	Industrial areas and inshore areas of medium salinity, From 3-20 Km to the Sea side	Chemical plants (swimming pools, ship yards)
C5	Industrial areas of high humidity and aggressive atmosphere, From 500m-3Km to the Sea side	Areas of almost constant condensation and high contamination.
CX	Offshore areas of high salinity or industrial areas of extremely high humidity, Less 500m to the Sea side	Buildings and areas of almost constant condensation and aggressive contamination

STVS ADVANCED PROTECTION SYSTEMS

At STVS, we specialize in high-performance coating solutions designed to extend the lifespan and enhance durability. Our coating include six standard types:

Category	Description	Recommend application
G1	Powder coating paint 1 layer on galvanized steel	Indoor and outdoor application for C2→C3 environment
G2	Powder coating paint 2 layer on galvanized steel	Indoor and outdoor application for C2→C5 environment
HDG	Hot dip galvanized according to ASTM A123 standard	Indoor and outdoor application for C2→C5 environment
G3	2 layers liquid paint	Indoor and outdoor application for C2→C3 environment
G4 (STVS MARINE COATING)	4 layers liquid paint	Indoor and outdoor application for C2→C5 environment.
G5 (STVS MARINE COATING for CX)	Hot dip galvanized + 3 layers Liquid paint	Indoor and outdoor application for C2→CX environment.

Systems for Other Metals

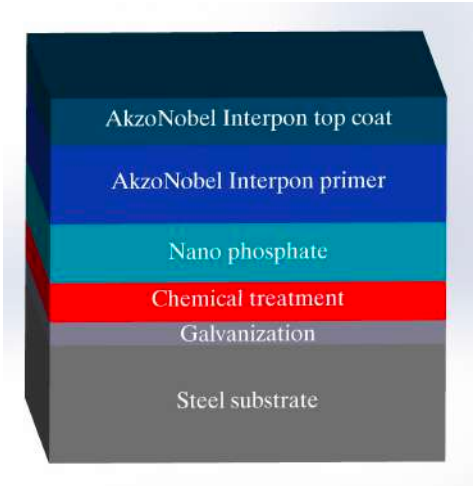
WHY CHOOSE STVS COATING SYSTEMS?

Multi-Layer Protection – Superior Durability – Environmentally Responsible

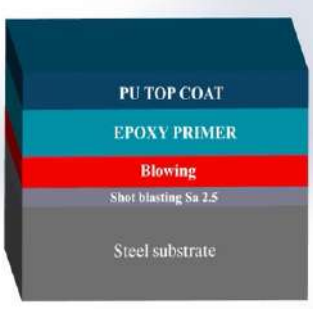
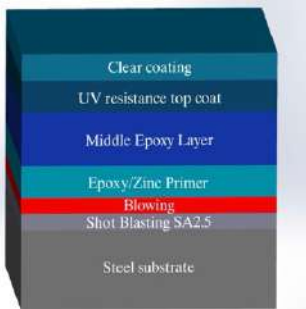
FEATURE	ADVANTAGE	BENEFIT TO THE CUSTOMER
Multi-Layer Protective System	Combines primer, basecoat, and topcoat for enhanced durability	✅ Product lifespan up to 10 years – reduces repainting costs and downtime
High Corrosion Resistance	Engineered to withstand marine air, industrial pollution, and harsh outdoor conditions	✅ Peace of mind for outdoor installations – no rust, even near the sea or in factories
Eco-Friendly, Solvent-Free Technology	Uses sustainable formulations, meets environmental standards	✅ Supports green building certifications – safe for workers and the environment
UV & Weather Resistant	Protects against sun exposure, humidity, wind, and rain	✅ Colors stay vibrant and consistent for years – enhances brand and project image

COATING SPECIFICATION:

POWDER COATING:

COATING NAME	G1	G2
Layers detail		
Type	Powder Coating	Powder Coating
Steel Surface	Galvanized steel	Galvanized steel
Surface Preparation	Auto-line chemical treatment + Nano phosphate	Auto-line chemical treatment + Nano phosphate
Primer Layer	-	- Epoxy Primer for C2→C4 - Zinc-Epoxy Primer for C5
Top Coat	AkzoNobel Polyester Powder Coating	AkzoNobel Polyester Powder Coating
Thickness	70-120µm	120-240µm
Corrosion Resistance	Good	Superior
UV Resistance	High	High
Adhesion	Superior	Superior
Color	Standard Colors Customize with MOQ 1000m2	Standard Colors Customize with MOQ 1000m2
Applications	C2→C3	C2→C5
Warranty	10 years corrosion protection	10 years corrosion protection

LIQUID COATING:

COATING NAME	G3	G4 (STVS MARINE COATING)	G5 (STVS MARINE COATING for CX)
Layers detail			
Type	Liquid Paint System	Liquid Paint System	Liquid Paint System
Steel Surface	Mild Steel	Mild Steel	Hot dip galvanization
Surface Preparation	Shot Blasting SA2.5	Shot Blasting SA2.5	SSPC-SP16 / Light blasting
Primer Layer	PPG Epoxy Primer	Epoxy Primer: C2→C4 High Zinc Primer: C5	PPG Epoxy Primer
Midle Layer		PPG Epoxy Layer	PPG Epoxy Layer
Top Coat	Jotun Hardtop AX Top-Coat	Jotun Hardtop AX Top-Coat	Jotun Hardtop AX Top-Coat + Clear Coating
Thickness	100-120µm	240-350µm	200-250µm
Corrosion Resistance	Good	Superior	Superior
UV Resistance	Good	Good	Good
Adhesion	Superior	Superior	Enhanced
Color	Flexible Colors	Flexible Colors	Flexible Colors
Applications	C2→C3	C2→C5	C2→CX
Warranty	5 years corrosion protection	10 years corrosion protection	10 years corrosion protection

- Clear coating is exclusively available for Gate products only.
- Other coatings made upon request come with a 2-year warranty.

WARRANTY MATRIX:

Warranty in years

COATING TYPE	C2	C3	C4	C5	CX
G1	10	10	5	-	-
G2	10	10	10	10	-
HDG	10	10	10	10	-
G3	10	5	5	-	-
G5 (STVS MARINE COATING)	10	10	10	10	-
G5 (STVS MARINE COATING for CX)	10	10	10	10	10

- Warranty matrix apply for steel material.
- The tolerances applicable to the anti-corrosion warranty are defined in accordance with ISO 4628-3 for rust grade assessment and ISO 4628-2 for blistering evaluation.
- Warranty does not cover damage caused by direct chemical exposure
- For CX environment: minimum distance to the sea water is 100m.

OPTIMIZED SOLUTIONS FOR EVERY ENVIRONMENT

From modular fencing and structural steel to marine and industrial-grade applications, **STVS Coating Systems** offer tailored protection that ensures long-term performance and aesthetic excellence. Our advanced formulations are meticulously designed to meet the most demanding environmental challenges while maintaining a professional finish.

COLORS:

Powder coating standard colors:



RAL9005



RAL9010



RAL 1033

Other color upon request



For more information on STVS Coating Systems,
Visit or contact us today: [Hotline: +84 938 770 765](tel:+84938770765) | sales@stvs.co | stvs.co |

STVS REGULAR MAINTENANCE OF ITS PRODUCTS

- Frequency: all surfaces require 6-monthly maintenance. Coated surfaces that are exposed to dust, mud, sand or salt require meticulous cleaning.
- Cleaning: this involves washing with water and a mild detergent (pH 5 to 8) followed by careful rinsing with clean water and drying. The use of an abrasive cleaner is prohibited.
- Special maintenance for motor-driven gates: maintenance is compulsory and must be performed once every 6 months. STVS offers installation services as well as maintenance and servicing agreements. Contact STVS or our subsidiary.

CONDITION OF WARRANTY

- STVS grants a 2-year operation warranty that is activated upon the actual start-up of the product or within a maximum of 2 years of delivery of the product.
- The warranty applies to the initial installation site subject to products being maintained each 6 months as maintenance recommendations.
- Wear parts (pinions, racks, batteries, rollers, etc.) are not covered by the warranty.
- Corrosion warranty are not applied for accessories parts.
- Minimum distant to the sea site 100m for CX environment

Rates of cover – 5-year guarantee	
1	100%
2	75%
3	50%
4	30%
5	20%

Rates of cover – 10-year guarantee	
1	100%
2	100%
3	90%
4	80%
5	70%
6	60%
7	50%
8	40%
9	30%
10	20%