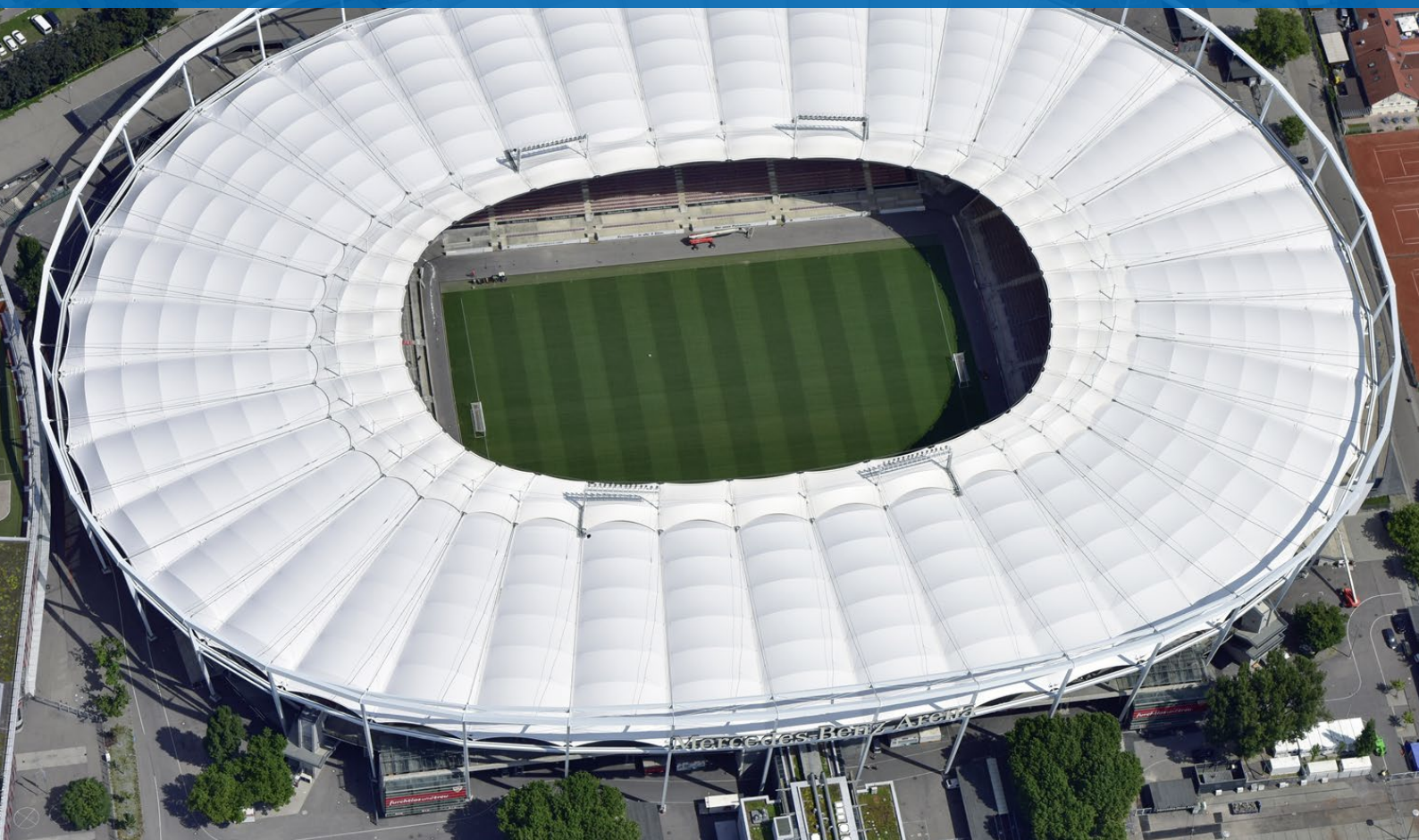


CORROSION PROTECTIVE COATINGS FOR STEEL STRUCTURES

**PRACTICAL COATING SYSTEMS
FOR ALL IMPORTANT APPLICATIONS
ACCORDING TO ISO 12944-5:2020**





CORROSION PROTECTIVE COATINGS FOR STEEL STRUCTURES

Insufficient corrosion protection of steel structures can have serious consequences. Lack of protection frequently leads to structural problems quite apart from the structure's visual appearance. Appropriate protective coatings and sensible maintenance intervals ensure long-term protection of steel structures and can avoid cost-intensive total refurbishment or even decommissioning.

Sherwin-Williams solutions are efficient product systems, high reliability, decades of experience and excellent technical service. Our specialists assist you – whether you are an architect, a planner, a fabricator, a steel constructor or responsible for creating tendering documents – when you need an individual corrosion protection solution.

We accompany your project from object analysis to selecting the right coating system to the final project conclusion.

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Important notice:

Following the transfer of the Industrial Coatings business from Sika to Sherwin-Williams on 1st April 2022, our entire product portfolio had to be rebranded in accordance with the Sherwin-Williams branding as of 1st July 2023.

Detailed information on product naming and a holistic overview of all old and new product names can be found in our new Product Reference Guide.

Download the brochure now at:
protectiveeu.sherwin-williams.com



OUR QUALITY PROMISE

Thanks to advanced technologies, exceptional service and decades of experience, Sherwin-Williams Protective & Marine Coatings is a reliable partner for corrosion protection coatings in steel construction.

Our competent sales team, our specialized application technology, the experienced experts in product management, our innovative development department, as well as the production team all contribute to our quality promise.



INSTRUCTION ON-SITE
during the coating works on request

Within the framework of control areas carrying out
SURFACE CHECKS

Consultation and sale by our experts,
tested as
**FROSIO INSPECTOR
LEVEL III**

**INDIVIDUAL
CONSULTATION**
in the choice of the optimal
coating system



INCREASED SAFETY THROUGH EFFICIENT PRODUCTS AND PROFESSIONAL CONSULTING

Without long-lasting and functional corrosion protection, many steel structures start to 'look quite old' after only a few years. But it is not only the appearance that is affected – the strength of the structure can also start to suffer. In the worst case, the only choice is between decommissioning the structure or a full refurbishment. That's why you can rely on Sherwin-Williams coating systems to maintain their value, durability and aesthetics right from the start.

Since 1998, the corrosion protection of steel structures has been regulated by the international standard ISO 12944. In 2018, the entire standard was adapted to the state of the art with constantly increasing requirements and findings with regard to corrosion protection coatings. In its nine parts, this standard illuminates the following aspects in detail:

- Basics and environmental influences
- Surface evaluation and preparation
- Conception of initial protection and refurbishment
- Laboratory testing of coating systems
- Execution and supervision of works

Our high-performance products and systems cover the entire spectrum of the defined requirements.

Further information on our full range of corrosion and fire protection coatings can be found on page 27. The selection of the optimal coating system in terms of technical and economic aspects takes work. For this reason, we have presented our suggestions and products in easy-to-follow tables.

Our practice-oriented information will also become a welcome aid for you and make choosing the right corrosion protection system easier. If you have any questions, we will gladly advise you.

Table

1	Coating systems on steel surfaces
2	Coatings on hot-dip galvanised steel
3	Refurbishment of old coating
4	Product features of our primers
5	Product features of our intermediate coats
6	Product features of our top coats
7	Product features of our intermediate coats
8	Product features of our top coats

PERFECT RESULTS DUE TO INNOVATIVE AND PROVED COATING SYSTEMS

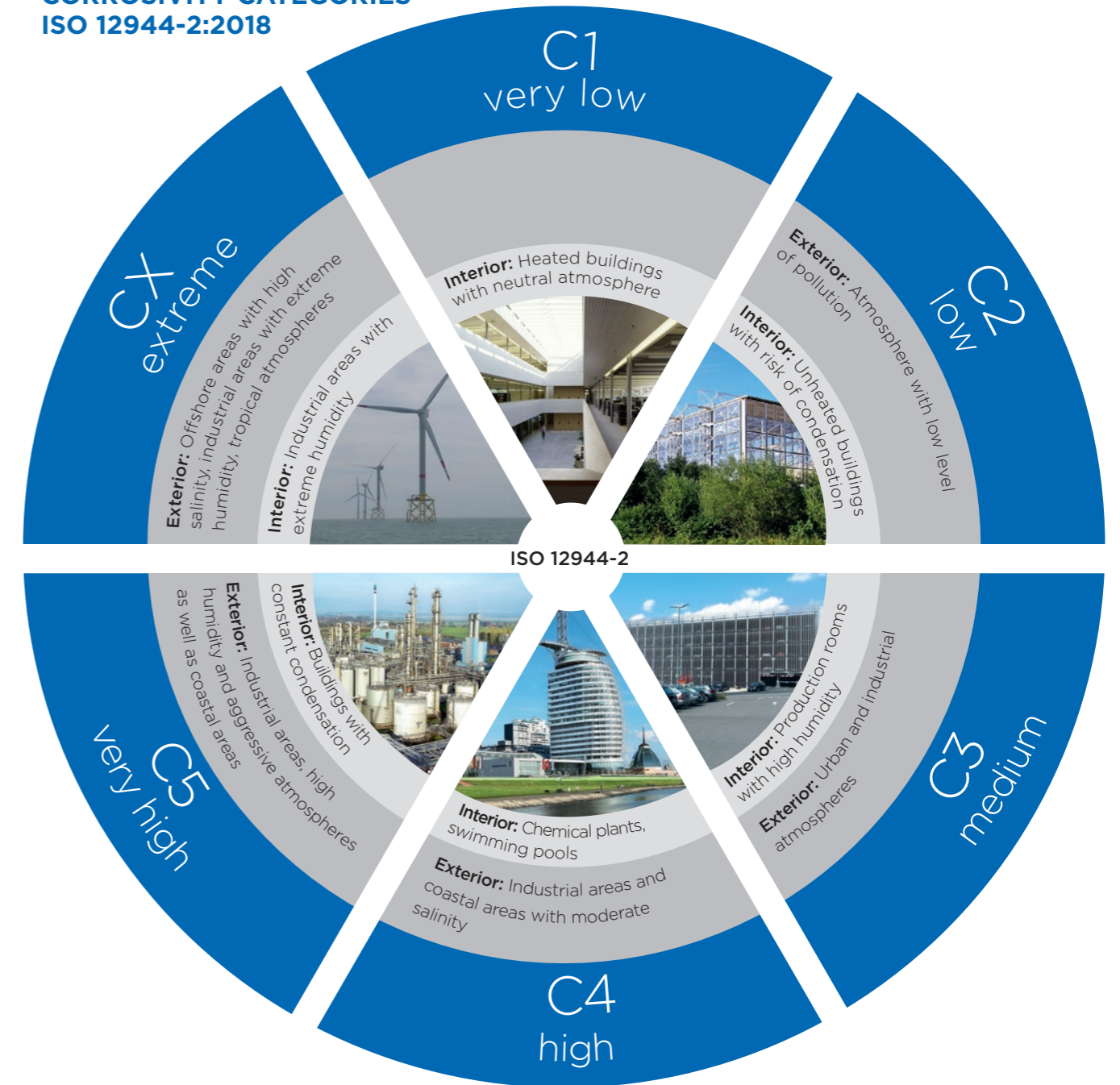
Corrosion protective coatings of steel structures are exposed to specific corrosion loads depending on the ambient conditions. These are defined in ISO 12944-1,-2 depending on durability range and corrosivity category.

Based on many years of experience, it is now possible to provide coating systems for steel with more than 25 years of durability in almost all atmospheric load ranges. As a result, increasing the durability range to more than 25 years has now been possible.

Durability range	Abbreviation (s)	Period of time
Low	L (low)	Up to 7 years
Medium	M (medium)	7 - 15 years
High	H (high)	15 - 25 years
Very high	VH (very high)	More than 25 years



CORROSIVITY CATEGORIES ISO 12944-2:2018



The corrosivity categories were restructured in the 2018 revised standard and now range from C1 to CX. CX describes extreme conditions related to marine climate or tropical atmosphere and is treated within the new part 9 of the standard.

PROTECTION OVER DECADES - ISO 12944-5:2020

To offer safe protection against corrosion, the diffusion barrier through coatings plays an essential role. Therefore, minimum requirements for coating systems are defined in the standard. The minimum number of layers and the minimum layer thickness are normative, i.e. required to protect the object in accordance with ISO 12944.

REQUIREMENTS ON COATING SYSTEMS

NUMBER OF LAYERS AND MINIMUM LAYER THICKNESS

- The **minimum number of coats** (MNOC) and the total film thickness (NDFT = **N**ominal **d**ry **f**ilm **t**hickness) of the individual systems are obligatory. Higher film thicknesses and more working steps are possible.

SUBSTRATE

- The standard lists normative systems for steel in surface preparation grade Sa 2½, galvanised steel and steel and steel with thermally sprayed zinc coatings.
- According to the revised standard, metallic zinc layers are a part of the corrosion protection system and no longer part of the substrate.

SYSTEM BUILD-UP*

- The coating system varies according to the desired corrosivity category and durability range.
- From C2 very high it is also possible to adopt coating systems from higher or lower categories. Only the durability range varies according to the corrosivity category.
- From C2 low to C2 high it is possible to use C3 coating systems, but not on reverse. This means that a coating system which is highly suitable for C2 is not necessarily suitable for C3 medium despite identical coating thicknesses. This is due to different corrosion resistance requirements in the two corrosivity categories.

*The requirements based on the revised standard are shown in the table on page 11.

MINIMUM REQUIREMENTS FOR COATING SYSTEMS ON BLASTED OR HOT-DIP GALVANIZED STEEL SUBSTRATES IN ACCORDANCE WITH ISO 12944-5:2020

Coating system			Corrosivity categories							
Type of primer	Type of the following layer	Durability range	C2		C3		C4		C5	
			Number of coats	Total coating thickness (µm)	Number of coats	Total coating thickness (µm)	Number of coats	Total coating thickness (µm)	Number of coats	Total coating thickness (µm)
Blasted steel substrate										
Zinc Rich Primer (ESI, EP, PUR)	EP, PUR, AY	L	-	-	-	-	1	60	2	160
		M	-	-	1	60	2	160	2	200
		H	1	60	2	160	2	200	3	260
		VH	2	160	2	200	3	260	3	320
ESI, EP, PUR	EP, PUR, AY	L	-	-	-	-	1	120	2	180
		M	-	-	1	120	2	180	2	240
		H	1	120	2	180	2	240	2	300
		VH	2	180	2	240	2	300	3	360
AK, AY	AK, AY	L	-	-	1	100	1	160	-	-
		M	1	100	1	160	2	200	-	-
		H	1	160	2	200	2	260	-	-
		VH	2	200	2	260	-	-	-	-
Hot-dip galvanized steel										
EP, PUR	EP, PUR, AY	L	-	-	-	-	1	80	1	120
		M	-	-	1	80	1	120	2	160
		H	1	80	1	120	2	160	2	200
		VH	1	120	2	160	2	200	2	240
AY	AY	L	-	-	-	-	1	80	2	160
		M	-	-	1	80	2	160	2	200
		H	1	80	2	160	2	200	-	-
		VH	2	160	2	200	-	-	-	-

AK: 1-pack alkyd resin coatings AY: 1-pack acrylic resin coatings ESI: 1-pack or 2-pack ethyl silicate coatings EP: 2-pack epoxy resin coatings PUR: 1-pack or 2-pack polyurethane coatings

TABLE 1B

SELECTION OF COATING SYSTEMS ON STEEL FOR CONDITIONS UP TO C5

COATING SYSTEMS FOR CORROSION PROTECTION OF STEEL STRUCTURES IN VARIOUS ATMOSPHERIC CONDITIONS ACCORDING TO ISO 12944-5:2020. SURFACE PREPARATION: SA 2½ (ISO 12944-4:2018)

Primer		Intermediate coat		Top coat		Total system		Corrosivity category										
Product name	NDFT (µm)	Product name	NDFT (µm)	Product name	NDFT (µm)	Number of coats	NDFT (µm)	C3		C4			C5					
								very high	low	medium	high	very high	low	medium	high	very high		
Kem-Kromik™ 6630 Primer	80	Kem-Kromik™ 6630 High Solid	100	Kem-Kromik™ 6630 High Solid	100	3	280											
Macropoxy® Primer HE N	160			Acrolon® EG-5*	80	2	240											
Macropoxy® EG-1 Plus	160			Acrolon® EG-5*	80	2	240											
Macropoxy® 450 Rapid	120			Acrolon® EG-120	120	2	240											
Macropoxy® Poxicolor	120			Macropoxy® Poxicolor	120	2	240											
Zinc Clad® 2204 VHS	220			Acrolon® 2230 VHS	80	2	300											
Dura-Plate® Poxicolor SW N	220			Acrolon® EG-5*	80	2	300											
Macropoxy® EG Phosphate N	100	Macropoxy® EG-1 Plus	120	Acrolon® EG-5*	80	3	300											
Macropoxy® EG Phosphate Rapid	100	Macropoxy® EG-1 Rapid Plus	120	Acrolon® EG-5*	80	3	300											
Acrolon® ZP Primer	100	Acrolon® ZP-1	120	Acrolon® EG-5*	80	3	300											
Zinc Clad® R Plus	80	Macropoxy® EG-1 Plus	100	Acrolon® EG-5*	80	3	260											
Zinc Clad® R Rapid Plus	80	Macropoxy® EG-1 Rapid Plus	100	Acrolon® EG-5*	80	3	260											
Macropoxy® Primer HE N	100	Macropoxy® EG-1 VHS/Plus	120	Acrolon® EG-5*	80	3	300											
Zinc Clad® R Plus	80	Macropoxy® EG-1 VHS	100	Acrolon® EG-5*	80	3	260											
Zinc Clad® R Plus	80	Macropoxy® Poxicolor	120	Macropoxy® Poxicolor	120	3	320											

* Alternatively Acrolon® EG-4, Acrolon® 2330 or Acrolon® 2230 VHS

TABLE 1C

SELECTION OF COATING SYSTEMS ON STEEL FOR CONDITIONS UP TO C5 VERY HIGH

COATING SYSTEMS FOR CORROSION PROTECTION OF STEEL STRUCTURES IN VARIOUS ATMOSPHERIC CONDITIONS ACCORDING TO ISO 12944-5:2020. SURFACE PREPARATION: SA 2½ (ISO 12944-4:2018)

Primer		Intermediate coat		Top coat		Total system		Corrosivity category										
Product name	NDFT (µm)	Product name	NDFT (µm)	Product name	NDFT (µm)	Number of coats	NDFT (µm)	C3	C4				C5					
								very high	low	medium	high	very high	low	medium	high	very high		
Zinc Clad® 2204 VHS	140	Zinc Clad® 2204 VHS	140	Acrolon® EG-5*	80	3	360											
Zinc Clad® R Plus	80	Macropoxy® EG-1 VHS/Plus	160	Acrolon® EG-5*	80	3	320											
Zinc Clad® R Rapid Plus	80	Macropoxy® EG-1 Rapid Plus	2x80	Acrolon® EG-5*	80	4	320											

* Alternatively Acrolon® EG-4, Acrolon® 2330 or Acrolon® 2230 VHS

TABLE 3

SELECTION OF COATING SYSTEMS FOR ALUMINIUM AND STAINLESS STEEL

SYSTEMS FOR ALUMINUM AND STAINLESS STEEL

Coating systems for aluminum and stainless steel are not regulated in ISO 12944. The coating systems and tests are based on ISO 12944-5 and 12944-6. The durability is based on ISO 12944-1 and ISO 12944-2. Other typical tests for these substrates were not carried out.

Surface preparation	Primer		Intermediate coat		Top coat		Total system		Corrosivity category															
	Product name	NDFT (µm)	Product name	NDFT (µm)	Product name	NDFT (µm)	Number of coats	NDFT (µm)	C2				C3				C4				C5			
									low	medium	high	very high	low	medium	high	very high	low	medium	high	very high	low	medium	high	very high
Degreasing	Macropoxy® EG-1 Plus	80			Acrolon® EG-5*	80	2	160	█	█	█	█	█	█	█	█	█	█	█	█				
Sweep-blasting	Macropoxy® EG-1 Plus	120			Acrolon® EG-5*	80	2	200	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

TABLE 4

SELECTION OF COATING SYSTEMS FOR THERMAL-SPRAYED ZINC COATINGS

SYSTEMS ON THERMAL-SPRAYED ZINC COATINGS ACCORDING ISO 12944-5: 2020 AND ISO 2063: 2019

Sealer		Intermediate coat		Top coat		Total system		Corrosivity category															
Product name	NDFT (µm)	Product name	NDFT (µm)	Product name	NDFT (µm)	Number of coats	NDFT (µm)	C2				C3				C4				C5			
								low	medium	high	very high	low	medium	high	very high	low	medium	high	very high	low	medium	high	very high
Macropoxy® EG-1 Plus + 20% Thinner EG	- 20	Macropoxy® EG-1 Plus	120	Acrolon® EG-5*	80	2	200	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Macropoxy® EG-1 Plus + 20% Thinner EG	- 20	Macropoxy® EG-1 Plus	160	Acrolon® EG-5*	80	2	240	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

TABLE 7

PRODUCT FEATURES OF OUR INTERMEDIATE COATS

Intermediate coat	Density (kg/l)	Volume solids		Dry film thickness (µm)	Theoretical consumption (kg/m ²)	Minimum application temperature	Waiting time until overcoating ⁽¹⁾		Suitable coatings systems					
		Vol. (%)	Wt (%)				at 10°C	at 20°C	Macropoxy® EG-1 VHS / EG-1 VHS N	Macropoxy® EG-1 Plus/Rapid Plus	Acrolon® EG-4 / EG-5	Acrolon® 2230 VHS	Acrolon® EG-120	Acrolon® 2330
Macropoxy® EG-1 Plus 2-pack low-solvent, micaceous iron oxide epoxy intermediate coat for primed steel or directly on galvanised steel, acc. to TL/TP-KOR-Stahlbauten, Blatt 87	1.5 1.4 ⁽²⁾	69 70 ⁽²⁾	81 81 ⁽²⁾	80-160 80-200 ⁽²⁾	0.174-0.348 0.160-0.400 ⁽²⁾	+ 5°C	8 hrs	4 hrs	•	•	•	•	•	
Macropoxy® EG-1 Rapid Plus 2-pack low-solvent, micaceous iron oxide epoxy intermediate coat for primed steel or directly on galvanised steel, acc. to TL/TP-KOR-Stahlbauten, Blatt 97	1.5 1.4 ⁽²⁾	66 70 ⁽²⁾	80 81 ⁽²⁾	80-160	0.182-0.363 0.160-0.320 ⁽²⁾	0°C	5 hrs	2.5 hrs	•	•	•	•	•	
Macropoxy® EG-1 VHS 2-pack very high solid, micaceous iron oxide epoxy intermediate coat for primed steel or directly on galvanised steel, acc. to TL/TP-KOR-Stahlbauten, Blatt 94	1.8	78	90	80-160	0.185-0.370	+ 5°C	13 hrs	5 hrs	•	•	•	•	•	
Macropoxy® EG-1 VHS N 2-pack very high solid, micaceous iron oxide epoxy intermediate coat for primed steel or directly on galvanised steel, acc. to TL/TP-KOR-Stahlbauten, Blatt 94	1.7	77	88	80-120	0.177-0.265	+ 5°C	7 hrs	10 hrs	•	•	•	•	•	
Acrolon® ZP-1 2-pack polyurethane micaceous iron oxide intermediate coat for primed steel according to TL/TP-KOR-Stahlbauten, Blatt 87/97	1.6 1.5 ⁽²⁾	60 63 ⁽²⁾	77 79 ⁽²⁾	80-120	0.215-0.320 0.190-0.290 ⁽²⁾	+ 5°C	3.5 hrs	3 hrs		•	•		•	

⁽¹⁾ The drying times depend on the film thickness and refer to 80 - 100 µm dry film thickness

⁽²⁾ Data based on micaceous iron oxide free color shades

TABLE 8

PRODUCT FEATURES OF OUR TOP COATS

Top coats	Density (kg/l)	Volume solids		Dry film thickness (µm)	Theoretical consumption (kg/m ²)	Minimum application temperature	Waiting time between overcoating ⁽¹⁾		Suitable primer in terms of refurbishment				
		Vol. (%)	Wt (%)				at 10°C	at 20°C	Kem-Kromik™ Aktivprimer Rapid	Kem-Kromik™ 6630 High Solid/EG	Kem-Kromik™ 6630 Primer	Macropoxy® Primer HE N	Macropoxy® EG Phosphate (Sa 2½)
Kem-Kromik™ 6630 High Solid 1-pack oxidative drying high-build coating in RAL or DB colour shades	1.4 1.5 ⁽²⁾	62 61 ⁽²⁾	77 77 ⁽²⁾	80 - 160	0.180-0.360 0.195-0.390 ⁽²⁾	+ 5°C	36 hrs	24 hrs	•	•	•	•	
Acrolon® EG-4 2-pack acrylic polyurethane top coat containing micaceous iron oxide pigments (MIO) in DB colour shades ⁽⁴⁾ , acc. to TL/TP-KOR-Stahlbauten, Blatt 87	1.4	55	70	60 - 100	0.153-0.256	+ 5°C	16 hrs 12 hrs ⁽³⁾	12 hrs 4 hrs ⁽³⁾				•	•
Acrolon® EG-5 2-pack acrylic polyurethane top coat in RAL colour shades, acc. to TL/TP-KOR-Stahlbauten, Blatt 87	1.3	61	74	60 - 100	0.130-0.217	+ 5°C	18 hrs 13 hrs ⁽³⁾	14 hrs 5 hrs ⁽³⁾				•	•
Acrolon® EG-120 2-pack very high solid polyurethane top coat in RAL and DB colour shades	1.3 1.6 ⁽²⁾	70 70 ⁽²⁾	80 83 ⁽²⁾	60 - 120	0.149-0.223 0.183-0.274 ⁽²⁾	+ 5°C	20 hrs	11 hrs				•	•
Macropoxy® EP Color 2-pack primer and top coat in RAL colour shades	1.6	62	80	80	0.205	+ 5°C	7 hrs	3.5 hrs				•	•
Acrolon® PUR Color Plus 2-pack primer and top coat based on polyurethane with anti-corrosion pigments, in silk-att RAL colour shades	1.2	66	74	80 - 180	0.144-0.324	+ 5°C	6-9 hrs	4-5 hrs				•	•
Kem-Kromik™ Steel Protect VHS Rapid 1-pack synthetic resin-based primer and top coat	1.55	65	81	60 - 160	0.143-0.380	+ 5°C	12 hrs	5 hrs	•	•	•	•	
Kem-Kromik™ CorroTop/EG 1-pack alkyd resin top coat with smooth, glossy surface in RAL and DB colour shades	1.3	56	73	60 - 120	0.140-0.280 0.150-0.300 ⁽²⁾	+ 5°C	24 hrs	12 hrs	•	•	•	•	
Acrolon® 2230 VHS 2-pack very high solid, acrylic polyurethane top coat in RAL colour shades with high weather and colour stability	1.4	70	82	60 - 100	0.120-0.200	+ 5°C	14 hrs	5 hrs				•	
Acrolon® 2330 2-pack acrylic polyurethane top coat in RAL colour shades with increased weathering and colour stability	1.3	56	69	50 - 80	0.115-0.185	+ 5°C	18 hrs	8 hrs				•	•
Macropoxy® Poxicolor Very low-solvent, micaceous iron oxide free, 2-pack primer, intermediate and top coat based on epoxy resin combination binders, acc. to TL/TP-KOR-Stahlbauten, Blatt 81	1.6	76	87	80 - 120	0.196-0.250	+ 5°C	12 hrs	6 hrs				•	

⁽¹⁾ The drying times depend on the film thickness and refer to 80 - 100 µm dry film thickness




⁽²⁾ Data based on micaceous iron oxide colours

⁽³⁾ Accelerated with Acrolon® PUR Accelerator

SHERWIN-WILLIAMS PROTECTIVE & MARINE

Sherwin-Williams Protective & Marine develops, produces and sells high-quality coatings for corrosion and fire protection. We can look back on a long and successful story with numerous innovations.


APPLICATION AREAS


CORROSION PROTECTION			FIRE PROTECTION
TRAFFIC CONSTRUCTION  <ul style="list-style-type: none"> • Motorway bridge / road bridge • Railway bridge • Suspension bridge • Walkway 	STEEL STRUCTURES  <ul style="list-style-type: none"> • Sport facilities • Centers for culture and events • Airports • Railway stations 	HYDRAULIC STEEL STRUCTURES  <ul style="list-style-type: none"> • Waterways • Port facilities • Flood protection • Steel sheet piles 	FOR STEEL  <ul style="list-style-type: none"> • Solvent-free systems • Water-based systems • Solvent-based systems
TANK PROTECTION  <ul style="list-style-type: none"> • Tanks • Silos and vessels • Pipeworks • Secondary containment 	CHEMISTRY AND INDUSTRY  <ul style="list-style-type: none"> • Mineral oil industry • Plants in atmospheric conditions • Refineries 	POWER SUPPLY  <ul style="list-style-type: none"> • Power stations • Pipelines • Wind energy • Mast coatings 	FOR WOOD AND CONCRETE  <ul style="list-style-type: none"> • Water-based products for interior use


Innovative products combined with high economic efficiency contribute to social responsibility and ecological and social awareness. The use of modern, high-quality coating materials with a low VOC content, optimum processing properties, and long durability is the guarantee that Sherwin-Williams Protective & Marine fulfils in a wide variety of application areas.


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CORROSION PROTECTIVE COATINGS FOR STEEL STRUCTURES

**PRACTICAL COATING SYSTEMS
FOR ALL IMPORTANT APPLICATIONS
ACCORDING TO ISO 12944-5:2020**

THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems - including protective liquid and powder, fire protection and resinous flooring - excel at combating corrosion and help customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including Bridge & Highway, Energy, High Value Infrastructure, Manufacturing & Processing, Marine, Rail, Power and Water & Wastewater.

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