

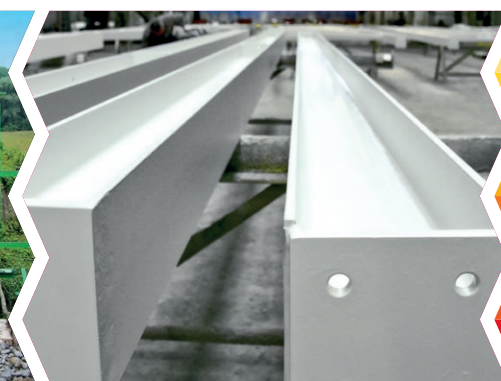
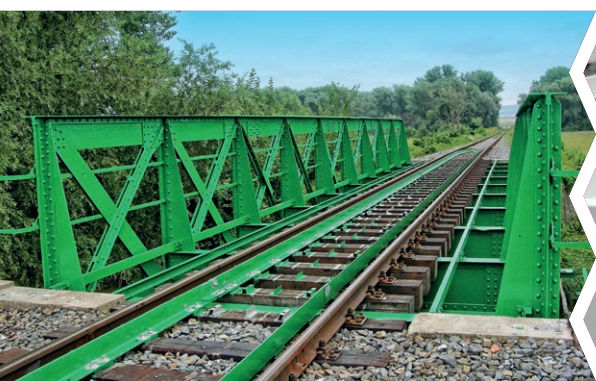
» Industrial surface treatment

METAL STRUCTURES



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SURFACE TREATMENT OF METAL STRUCTURES

In this material, we offer our customers an overview of some of the most frequently used coating systems (CS) for surface treatment (ST) of various metal constructions, prefabricated halls, reservoirs, etc. The CSs are based on the practical knowledge and experience of our technicians.

SELECTED COATING SYSTEMS (most common use)

Surface finishing of metal structures (mostly steel structures) is realized with a wide range of paints. Thus, from "classical" synthetic CS to highly resistant multilayer coatings, polyurethanes or epoxies.



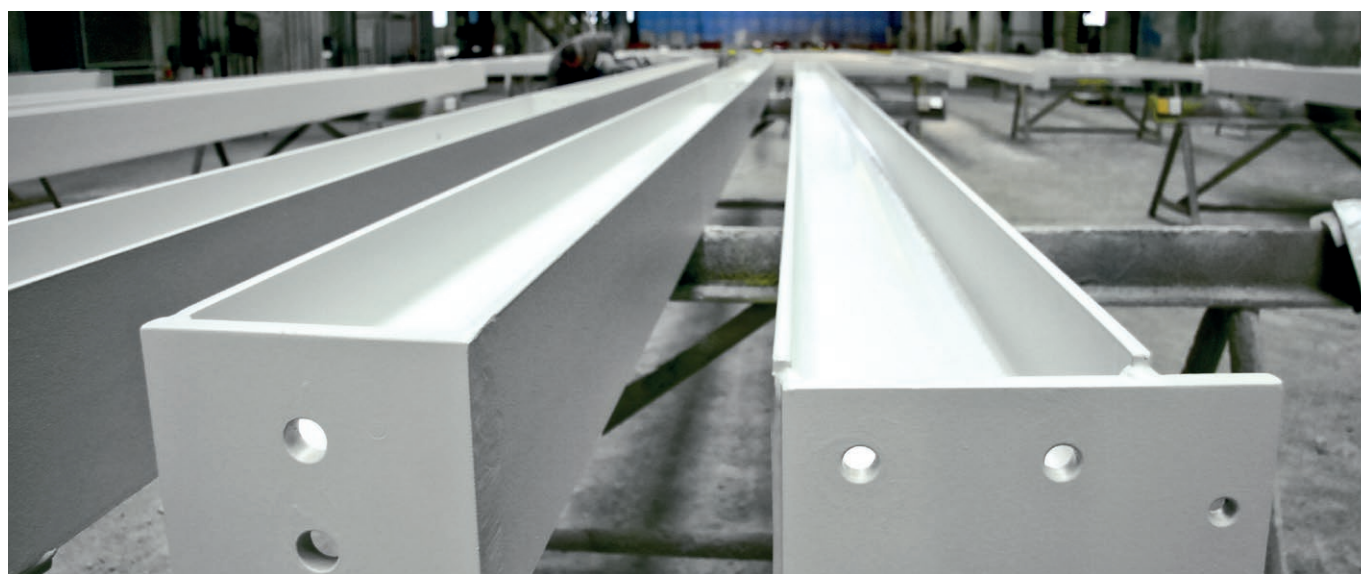
IRON SURFACES

A	synthetic (alkyd) two-layer CS (AK)			
	primer	top coat	whole CS	
	S2000 SYNOREX PRIMER	S2225 ULTRA RAPID EMAIL	S2000 + S2225	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1-2 / 60-80 µm	100-120 µm	C3 / 5 years
BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	
quick-drying excellent corrosion protection		gloss quick-drying	good UV and weather resistance quick-drying	

B	synthetic (alkyd) two-layer CS (AK)			
	primer	top coat	whole CS	
	S2020 UNIVERZÁL ZÁKLAD	S2032 EMAIL	S2020 + S2032	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1-2 / 60-80 µm	100-120 µm	C3 / 5 years
BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	
quick-drying excellent corrosion protection		high gloss very fast drying	good UV and weather resistance quick-drying	

C	synthetic one-layer CS (AK)		
	one-layer paint		whole CS
	S2015 PROTIREZ		S2015
	NUMBER OF LAYERS / DFT		TOTAL NDFT EXPECTED LIFE
	1-2 / 80-120 µm		80-120 µm C3 / 5-7 years
BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
by default semi-gloss good corrosion protection quick-drying one-layer application		economic version good UV and weather resistance	

D	synthetic (urethane alkyd) one-layer CS (AK)		
	one-layer paint		whole CS
	S2220 SYNTEPUR PRIMER		S2220
	NUMBER OF LAYERS / DFT		TOTAL NDFT EXPECTED LIFE
	1-2 / 80-120 µm		80-120 µm C3 / 7-10 years
BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
matt high corrosion protection quick-drying one-layer application		high UV and weather resistance high corrosion and mechanical resistance	





combined (epoxy ester/alkyd-silicone) two-layer CS (EPOXYESTER + AK)				
E	primer	top coat	whole CS	
	S2351	S2413	S2351 + S2413	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1-2 / 60-80 µm	100-120 µm	C3 / 10 years
	BASIC CHARACTERISTICS high corrosion protection also on galvanized material	BASIC CHARACTERISTICS semi-gloss higher dry matter selected shades are resistant to temperatures up to 200 °C	BASIC CHARACTERISTICS high UV and weather resistance higher resistance	

combined epoxy polyurethane three-layer CS (2k EP + 2k PUR)				
F	primer	interlayer	top coat	whole CS
	S2319 EPAX	S2335 EPAX	U2060 AXAPUR	S2319 + S2335 + U2060
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT EXPECTED LIFE
	1 / 50 µm	1 / 120 µm	2 / 70 µm	240 µm C5 / 10-15 years
	high corrosion protection - Zn only on blasted surface	BASIC CHARACTERISTICS high barrier protection, mica thick layers	gloss, semi-matt, matt high UV and weather resistance	BASIC CHARACTERISTICS high UV and weather resistance and stability high corrosion protection

combined epoxy polyurethane two-layer CS (2k EP + 2k PUR)				
G	primer	top coat	whole CS	
	S2326 EPAX	U2074 AXAPUR	S2326 + U2074	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 120 µm	1-2 / 60-80 µm	180-200 µm	C4 / 10-15 years
	BASIC CHARACTERISTICS high corrosion protection thicker layers fast drying	BASIC CHARACTERISTICS gloss good UV and weather resistance economic version	BASIC CHARACTERISTICS easy application high weather resistance and stability economic version	



epoxy one-layer CS (2k EP)			
H	one-layer paint		whole CS
	S2338 EPAX MASTIC		S2338
	NUMBER OF LAYERS / DFT		TOTAL NDFT EXPECTED LIFE
	1 / 180 µm		180 µm C4 / 5-10 years
	BASIC CHARACTERISTICS by default semi-matt excellent corrosion protection quick-drying thick layers		BASIC CHARACTERISTICS quick – one-layer application economic version low VOC emissions

combined epoxy polyurethane two-layer CS (2k EP + 2k PUR)			
CH	primer	top coat	whole CS
	S2338 EPAX MASTIC	U2022 AXAPUR	S2338 + U2022
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT EXPECTED LIFE
	1 / 120 µm	1-2 / 60-80 µm	180-200 µm C4 / 10-15 years
	BASIC CHARACTERISTICS high corrosion protection thicker layers high dry matter	BASIC CHARACTERISTICS semi-matt high UV and weather resistance	BASIC CHARACTERISTICS easy application high weather resistance and stability

polyurethane one-layer CS (2k PUR)			
I	one-layer paint		whole CS
	U2217 AXAPUR		U2217
	NUMBER OF LAYERS / DFT		TOTAL NDFT EXPECTED LIFE
	2 / 120 µm		120 µm C3 / 7-10 years
	BASIC CHARACTERISTICS by default semi-gloss good corrosion protection quick-drying		BASIC CHARACTERISTICS quick and easy application higher UV and weather resistance

water-based (acrylic) two-layer CS (AY)			
primer		top coat	
V2115 AQUAREX		V2113 AQUACOL PLUS	
NUMBER OF LAYERS / DFT		TOTAL NDFT	
1 / 60-80 µm		120-160 µm	
BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
corrosion protection also on galvanized material, aluminium quick-drying even thicker layers		matt quick-drying UV and weather resistance	
		whole CS	
		V2115 + V2113	
		EXPECTED LIFE	
		C3 / 5-10 years	
		BASIC CHARACTERISTICS	
		UV and weather resistance quick-drying effective VOC solution	

water-based (alkyd) two-layer CS (AK)			
primer		top coat	
V2158		V2072 AQUACOL	
NUMBER OF LAYERS / DFT		TOTAL NDFT	
1 / 60 µm		120 µm	
BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
corrosion protection quick-drying		gloss UV and weather resistance	
		whole CS	
		V2158 + V2072	
		EXPECTED LIFE	
		C3 / 5-10 years	
		BASIC CHARACTERISTICS	
		UV and weather resistance effective VOC solutions	



GALVANIZED SURFACES

A	polyurethane one-layer CS (2k PUR)		
	one-layer paint	whole CS	
	U2218 AXAPUR	U2218	
	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1-2 / 100-120 µm	100-120 µm	C3 / 10-15 years
	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS
	semi-matt, gloss, matt and structural surface also on aluminium, titanium zinc, steel quick-drying		easy and quick – one-layer application high UV and weather resistance on the roof is recommended min NDFT 120 µm

B	polyurethane one-layer CS (2k PUR)		
	one-layer paint	whole CS	
	U2219 AXAPUR	U2219	
	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1-2 / 80-120 µm	80-120 µm	C3 / 10-15 years
	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS
	semi-matt also on aluminium, titanium zinc, steel quick-drying very high weather resistance		easy and quick – one-layer application very high UV and weather resistance on the roof is recommended min NDFT 120 µm

C	combined epoxy polyurethane two-layer CS (2k EP + 2k PUR)			
	primer	top coat	whole CS	
	S2318 EPAX	U2060 AXAPUR	S2318 + U2060	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 80 µm	2 / 80 µm	160 µm	C4 / 10-15 years
	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	
	high corrosion protection also for steel even thicker layers	gloss, semi-matt, matt high UV and weather resistance	high UV and weather resistance and high corrosion protection	

D	polyurethane two-layer CS (2k PUR)			
	CS U2008 + U2060 is certified for coatings of agricultural technology - is considered suitable for short-term contact with food			
	primer	top coat	whole CS	
	U2008 AXAPUR PRIMER	U2060 AXAPUR	U2008 + U2060	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1-2 / 60-80 µm	100-120 µm	C3 / 10-15 years
	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	
	quick-drying also on aluminium, titanium zinc and steel	gloss, semi-matt, matt high UV and weather resistance	high UV and weather resistance quick-drying	



