



» Industrial surface treatment

# TRANSPORTATION TECHNOLOGY



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# SURFACE TREATMENT OF TRANSPORTATION TECHNOLOGY

In this material, we offer our customers an overview of some of the most commonly used paint coating systems (CS) for surface treatment (ST) of transport technology (trucks, road vehicles, trams, railway wagons, but also aircraft and helicopters). These CSs are based on the practical knowledge and experience of our technicians.

## SELECTED COATING SYSTEMS (most common use)

Surface treatment of the transportation technology is realized by a group of selected CSs specialized on a particular kind of transportation technology. Depending on the destination, the CS series is directly targeted - for example, for railway rolling stock, aviation, road engineering, etc.





# IRON SURFACES

A	water-based (acrylic) two-layer CS (AY)			
	this CS is approved by VÚZ, a.s. to be used for the surface treatment of railway rolling stock of ČD (Czech Railways)			
	primer	top coat	whole CS	
	V2115 AQUAREX	V2113 AQUACOL PLUS	V2115 + V2113	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 60 µm	1-2 / 60-80 µm	120-140 µm	C3 / 5-10 years
B	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
	corrosion protection also on galvanized material, aluminium quick-drying even thicker layers		UV and weather resistance quick-drying effective VOC solution	
	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
	matt quick-drying UV and weather resistance			

B	water-based (acrylic) one-layer CS (AY)		
	this CS is approved by VÚZ, a.s. to be used for the surface treatment of railway rolling stock of ČD (Czech Railways)		
	one-layer paint		whole CS
	V2115 AQUAREX		V2115
	NUMBER OF LAYERS / DFT		TOTAL NDFT      EXPECTED LIFE
	1-2 / 100-120 µm		100-120 µm      C3 / 5-10 years
	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS
	by default matt		good UV and weather resistance
	quick-drying		solving VOC issues
	one-layer application, also on galvanized material		

C	combined epoxy polyurethane three-layer CS (2k EP + 2k PUR)			
	for railway rolling stock, trams, buses and trucks			
	primer	interlayer	top coat	whole CS
	S2325 EPAX	U2040 AXAPUR	U2080 AXAPUR	S2325 + U2040 + U2080
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT
	1 / 40 µm	1 / 60-80 µm	2 / 40-60 µm	160-180 µm
D	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
	high corrosion protection also on galvanized material even thicker layers		high UV and weather resistance and stability high corrosion protection	
	BASIC CHARACTERISTICS		BASIC CHARACTERISTICS	
	high barrier protection thick layers sandable interlayer		gloss high UV and weather resistance	





D	combined epoxy polyurethane three-layer CS (2k EP + 2k PUR) for railway rolling stock, trams, buses and trucks				
	primer	interlayer	top coat	whole CS	
	<b>S2327 EPAX</b>	<b>U2040 AXAPUR</b>	<b>U2082 AXAPUR</b>	<b>S2327 + U2040 + U2082</b>	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1 / 60-80 µm	2 / 40-60 µm	160-180 µm	C3 / more than 15 years
	BASIC CHARACTERISTICS  high corrosion protection also on galvanized material even thicker layers	BASIC CHARACTERISTICS  high barrier protection thick layers sandable interlayer	BASIC CHARACTERISTICS  gloss high UV and weather resistance, low VOC	BASIC CHARACTERISTICS  high UV and weather resistance and stability high corrosion protection HS system, lower VOC emissions	

E	combined epoxy polyurethane three-layer CS (2k EP + 2k PUR) for railway rolling stock, trams, buses and trucks this CS is approved by VÚZ, a.s. to be used for the surface treatment of railway rolling stock of ČD (Czech Railways)				
	primer	interlayer	top coat	whole CS	
	<b>S2318 EPAX</b>	<b>U5100 PURCOL</b>	<b>U2060 AXAPUR</b>	<b>S2318 + U5100 + U2060</b>	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1 / 60-80 µm	1-2 / 60-80 µm	160-200 µm	C3 /more than 15 years
	BASIC CHARACTERISTICS  high corrosion protection also on galvanized material even thicker layers	BASIC CHARACTERISTICS  high barrier protection thick layers	BASIC CHARACTERISTICS  gloss, semi-matt, matt high UV and weather resistance	BASIC CHARACTERISTICS  high UV and weather resistance and stability high corrosion protection	





F	combined epoxy polyurethane three-layer CS (2k EP + 2k PUR)				
	for chassis of trucks, trams, semi-trailers, mining and extractive machines, S2319 only for blasted surface				
	primer	interlayer	top coat	whole CS	
	S2319 EPAX	S2318 EPAX	U2066 or U2072 AXAPUR	S2319 + S2318 + U2066 (U2072)	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	1 / 60-110 µm	1-2 / 60-90 µm	160-240 µm	C3 /more than 15 years
BASIC CHARACTERISTICS					BASIC CHARACTERISTICS
high corrosion protection content of Zn					high UV and weather resistance and stability high corrosion protection
BASIC CHARACTERISTICS					BASIC CHARACTERISTICS
high barrier protection thick layers					high UV and weather resistance and stability high corrosion protection
BASIC CHARACTERISTICS					BASIC CHARACTERISTICS
gloss high UV and weather resistance					high UV and weather resistance and stability high corrosion protection

G	epoxy two-layer CS (2k EP)			
	special CS directly on chassis of trucks, trams, buses			
	primer	top coat	whole CS	
	S2325 EPAX	S2335-Z1C1100 EPAX	S2325 + S2335	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1-2 / 120 µm	1 / 80 µm	200 µm	C3 /more than 15 years
BASIC CHARACTERISTICS				BASIC CHARACTERISTICS
high corrosion protection thicker layers				easy application high resistance to corrosion and mechanical load economic version
BASIC CHARACTERISTICS				BASIC CHARACTERISTICS
semi-matt high mechanical resistance, flexible				easy application high resistance to corrosion and mechanical load economic version
BASIC CHARACTERISTICS				BASIC CHARACTERISTICS
				easy application high resistance to corrosion and mechanical load economic version









# SURFACES OF NON-FERROUS METALS

polyurethane two-layer CS (2k PUR)			
CS for use on truck cabins, semi-trailers, buses, trams, etc.			
A	primer	top coat	whole CS
	U2008 AXAPUR PRIMER	U2060 or U2080 AXAPUR	U2008 + U2060 (U2080)
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT      EXPECTED LIFE
	1 / 40 µm	2 / 80 µm	120 µm      C3 / 15 years
	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS
	quick-drying on galvanized material, aluminium, titanium zinc and steel	U2060 gloss, semi-matt, matt U2080 is high dry-matter glossy version	high UV and weather resistance quick-drying

combined epoxy polyurethane two-layer CS (2k EP + 2k PUR)			
CS for use on aircraft, helicopters, aviation, etc.			
B	primer	top coat	whole CS
	S2318-Z1C0110 EPAX	U2054 or U2056 AXAPUR	S2318-Z1C0110 + U2054 (U2056)
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT      EXPECTED LIFE
	1 / 10 µm	2 / 80 µm	90 µm      C3 / 15 years
	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS
	binding agent duralumin, aluminium	U20154 gloss, U2056 matt high UV and weather resistance	high UV and weather resistance





### combined epoxy polyurethane two-layer CS (2k EP + 2k PUR)

CS for use on aircraft, helicopters, aviation, etc.

this CS is certified for aviation technology

C	primer	top coat	whole CS	
	S2318-Z2C0110 EPAX	U2081 AXAPUR	S2318-Z2C0110 + U2081	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	2 / 60-80 µm	100-120 µm	C3 / 15 years
	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	
quick-drying on galvanized iron, aluminium, titanium zinc and steel, low VOC	gloss high dry matter and resistances	high UV and weather resistance		

### combined epoxy polyurethane two-layer CS (2k EP + 2k PUR)

CS for use on aircraft, helicopters, aviation, etc.

this CS is certified for aviation technology

D	primer	top coat	whole CS	
	S2318-Z3C0110 NG EPAX	U2081 NG AXAPUR	S2318-Z3C0110 + U2081 NG	
	NUMBER OF LAYERS / DFT	NUMBER OF LAYERS / DFT	TOTAL NDFT	EXPECTED LIFE
	1 / 40 µm	2 / 60-80 µm	100-120 µm	C3 / 15 years
	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	BASIC CHARACTERISTICS	
quick-drying on galvanized iron, aluminium, titanium zinc and steel, low VOC	gloss high dry matter and resistances, low VOC	high UV and weather resistance low VOC		

