




RAILWAY COATINGS WORLDWIDE

By  **HELIOS**

 **Rembrandtin**

RAILTEC[®]
RAILWAY COATING SYSTEMS

A high-speed train is shown from a high-angle perspective, moving along a track. The entire image is overlaid with a semi-transparent green filter. White, thin-outlined text is positioned on the left side of the image, partially overlapping the train. On the right side, there is a large, white, angular shape that resembles a torn piece of paper or a stylized graphic element.

HELIOS AND
REMBRANDTIN
STAND FOR
COMPLETE AND
RELIABLE COATING
SOLUTIONS,
CERTIFIED SYSTEMS
AND LONG-TERM
EXPERIENCE IN THE
FIELD OF RAILWAY
COATINGS.

INNOVATIVE RAILWAY COATING TECHNOLOGIES ON THE MOVE



COMBINED STRENGTHS, KNOW-HOW AND QUALITY

Since 2014 the experienced coating producers Helios in Slovenia and Rembrandtin in Austria have been combining their concentrated competence in the field of railway coatings. Under the brand RAILTEC, they form one of the largest segments within the European Helios Group. Our high-quality railway coatings are used for railway vehicles in more than 40 countries all over the world. The product portfolio includes solventborne or waterborne as well as one-component or two-component systems and putty.

INTERNATIONAL CERTIFICATIONS

All railway coating products are regularly certified to ensure high-quality standards and high performance. The group is committed to the principles of sustainable development, integrity, and value creation. Rembrandtin is equipped with international certifications for its tailored solutions for local and long distance trains as well as for goods wagons.

CONTINUOUS DEVELOPMENT

R&D at Helios Group is very strong and organized in one of the most modern R&D facilities on the international market. Laboratories are fully equipped with advanced technology and know-how is regularly transferred among experts at the highest level. We understand the importance of innovation in all areas of our work and constantly encourage research, education, and expertise to create an innovative working environment where Helios and Rembrandtin coatings are born.





RAILWAY COATINGS FOR THE FUTURE

Helios and Rembrandtin cover all demands in the field of railway coatings and offer a great variety of different coating types:

- solventborne
- waterborne
- one-component systems
- two-component systems
- putty

All our products guarantee the **easiest processing**. They are extremely **environmentally friendly, VOC compliant, easy to repair and fast drying**. They protect trains against corrosion, changes in colour shade, graffiti and other damages – permanently. Economic efficiency is guaranteed.

We place great value on innovation, appearance and design. Decorative effects are more important than ever, especially in public transport. Our coatings enable a variety of designs: **metallic and effect coatings** are universally possible on the most varied surfaces.



HELIOS OFFERS NINE DIFFERENT SYSTEMS OF SOLVENTBORNE RAILWAY COATINGS.

TRAIN TYPE	PART FOR APPLICATION	SYSTEM								
		1	2	3	4	5	6	7	8	9
PASSENGERS' WAGONS LOCOMOTIVES DIESEL TRAINS ELECTRIC TRAINS	Chassis			•			•	•	•	•
	Interior surfaces			•			•	•		•
	Exterior surfaces	•	•	•	•	•			•	
GOODS WAGONS	Tank-wagon			•			•			•
	Gondola wagon, flat wagon		•	•			•	•		•
	Hopper wagon	•	•				•	•		•

THE PRODUCT **PORTFOLIO OF REMBRANDTIN** INCLUDES WATERBORNE COATINGS, SOLVENTBORNE COATINGS AND PUTTY:

TRAIN TYPE	WATERBORNE	SOLVENTBORNE	PUTTY
PASSENGERS' WAGONS LOCOMOTIVES DIESEL TRAINS ELECTRIC TRAINS	Two-component Epoxy Primer Two-component Epoxy Top Coat Two-component PUR Primer Two-component PUR Filler Two-component PUR Top Coat Two-component PUR Base Coat/ Clear Coat	Two-component Epoxy Primer/Filler Two-component Epoxy Top Coat Two-component PUR Filler Two-component PUR Top Coat	Long-term putty Short-term putty 2K-Polyester train putty
GOODS WAGONS	Two-component Epoxy Primer Two-component Epoxy Top Coat Two-component PUR Top Coat Single-layer coatings	Two-component Epoxy Primer Two-component Epoxy Top Coat	



HELIOS RAILWAY COATING SOLUTIONS

SYSTEM 1

EXTERIOR SURFACES

Helios 2K primer E-Zp
Helios 2K PUR enamel 3:1
Helios 2K lak antigrafiti

- Highly decorative properties
- Non-stick surface that resists both dirt and graffiti
- Durability of 10 years
- Resistant to aggressive detergents when washing

SYSTEM 2

EXTERIOR SURFACES

Helios 1K primer PBF
Helios 1K Topcoat A

- Good corrosion protection
- Easy to use
- Fast drying
- Durability of 6 years

SYSTEM 3

EXTERIOR SURFACES

Helios 2K primer E-Zp
Helios 2K PUR topcoat 3:1

- Highly decorative properties also on non-smooth surfaces
- Easy to apply
- Durability of 10 years

SYSTEM 4

EXTERIOR SURFACES

Helios 2K primer E-Al
Helios 2K primer PE
Helios basecoat
Helios 2K PUR clearcoat 2:1

- Easy to apply multi-coloured surfaces
- Highly decorative
- Superb anticorrosion properties
- Durability of 12 years



SYSTEM 5

EXTERIOR SURFACES

Helios 2K primer E-AI
 Helios 2K primer PE
 Helios 2K PUR topcoat 3:1
 Helios 2K PUR clearcoat 2:1

- Highly decorative
- Superb anticorrosion properties
- Durability of 12 years

SYSTEM 8

TOP SELLING SYSTEM / NO.1 FOR ROOFS

Helios 2K primer E-AI
 Helios 2K PUR primer 3:1 mix

- The ideal solution for electric locomotives roofs
- Resistant to extremely high temperatures over very short times
- The superior anticorrosion properties extend the durability
- Durability of 12 years

SYSTEM 6

UNDERBODY

Helios 2K one-layer E (E-ZP)

- Resistant to static contact with salt water, gasoline, and other aggressive materials
- Suitable for recoating with anti-sound and anti-vibration materials and adhesives
- High shock resistance
- Durability of 5 years

SYSTEM 9

TOP SELLING SYSTEM / NO.1 FOR ROOFS

Helios 2K primer E-Zp
 Helios 2K PUR topcoat 3:1

- Excellent UV resistance
- Very good chemical resistance
- Easy to clean
- Durability of 10 years

SYSTEM 7

EXTERIOR AND INTERIOR

Helios 1K one-layer EE

- Reduce paint and bake cycles
- Reduce energy use and maintenance costs
- Increased productivity



HELIOS PROTECTS

Passengers wagons:

- LUGANSK TEPLVOZ, Ukraine
- RJUKOVSKI VAGONOSTROJITELNI ZAVOD, Ukraine
- TKS, Ukraine
- MDS, Ukraine

Locomotives:

- KOLOMENSKI TEPLVOZOSTROJITELJNI ZAVOD, Kolomna
- NEVZ, Russia
- BMZ, Russia

Diesel trains:

- RADE KONČAR, Croatia
- GREDELJ, Croatia
- DMZ, Russia
- CD PTUJ, Slovenia
- METROVAGONMASH, Russia

Cargo wagons:

- Džuro Đaković, Croatia
- KRJUKOVSKI VAGONOSTROJITELNI ZAVOD, Ukraine





OUR RAILWAY
COATINGS SET
THE COURSE
FOR EASY
APPLICATION,
ATTRACTIVE
DESIGN AND
PERMANENT
CORROSION
PROTECTION.



REMBRANDTIN COATING SYSTEMS FOR LOCAL AND LONG DISTANCE TRAINS

WATERBORNE COATING SYSTEMS

2K Epoxy Primer

EPOXY 61 S PRIMER:

- Can be used on steel, aluminium, stainless steel
- High corrosion protection
- Plasticized

2K PUR Filler

AQUA FILLER 41:

- High filling property
- Fast drying
- Good grindability

2K Epoxy Top Coat

EPOXY 61 S TOP COAT:

- High mechanical resistance
- High chemical resistance
- Plasticized
- For thick-layer application

2K PUR Top Coat

REM PUR 310/REM PUR 510 TOP COAT:

- High covering power
- Maximum gloss and colour shade stability
- High resistance to and easy removal of graffiti
- High scratch resistance
- Good chemical resistance

2K PUR Primer

REM PUR 81 PRIMER:

- Can be used on aluminium and plastic
- Fast drying

2K PUR Base Coat / Clear Coat

REM PUR 610/REM AQUA BASE COAT 101, REM PUR 310 CLEAR COAT:

- High covering power
- Maximum gloss and colour shade stability
- High resistance to and easy removal of graffiti
- Additional protective layer through clear coat
- Percentage of solvent in clear coat < 10%
- High chemical resistance
- For high-quality water paint system



SOLVENTBORNE COATING SYSTEMS

2K Epoxy Primer / Filler

EPOXY 41 UNIVERSAL PRIMER, EPOXY 51 UNIVERSAL PRIMER:

- Can be used on steel, aluminium, stainless steel, nitro and various plastics (GFRP)
- High corrosion protection
- Plasticized

2K Epoxy Top Coat

REMOPLAST DS GLIMMER:

- High mechanical resistance
- High chemical resistance
- Plasticized
- Fort thick-layer application

2K PUR Top Coat

REM ACRYL 21, PUR 31 LACQUER, REM ACRYL 51:

- High covering power
- Color-shade stable and high gloss
- High resistance to and easy removal of graffiti
- High resistance to chemicals

2K PUR Filler

PUR PRIMER 51:

- High filling property
- Fast drying
- Good grindability

PUTTY

- Long-term putty: 2K EPOXY and PE Putty
- Short-term putty: PE fiber putty, PE fine putty

- Approved fire protection according to EN 45545/2



REMBRANDTIN COATING SYSTEMS FOR GOODS WAGONS

WATERBORNE COATING SYSTEMS

2K Epoxy Primer

EPOXY 61 S PRIMER:

- Can be used on steel, aluminium, stainless steel
- High corrosion protection
- Plasticized

2K Epoxy Top Coat

EPOXY 61 S TOP COAT:

- High mechanical resistance
- High chemical resistance
- Plasticized

2K Epoxy Monolayer

Rem ML 61 S:

- High corrosion protection
- Allows very high layer thickness

2K PUR Top Coat

REM PUR 510 TOP COAT, REM PUR 310 TOP COAT:

- High covering power
- Good gloss and colour-shade stability
- Economical

Single Layer Coatings

KH-ES LACQUER, KH-ES LACQUER ÖBB:

- Maximum economic efficiency
- Simple application

SOLVENTBORNE COATING SYSTEMS

2K Epoxy Primer / Filler

EPOXY 51 UNIVERSAL PRIMER:

- Can be used on steel, aluminium, stainless steel and nitro
- High corrosion protection
- Plasticized

2K Epoxy Top Coat

REMOPLAST DS GLIMMER:

- High mechanical resistance
- High chemical resistance
- Plasticized

High Solid Epoxy Monolayer

Rem EP ES LACQUER:

- Excellent corrosion protection
- Solid content up to 70%

2K PUR Top Coat

REM ACRYL 51:

- High covering power
- Color-shade stable and high gloss
- High resistance to and easy removal of graffiti
- High resistance to chemicals





REMBRANDTIN PROTECTS

Local trains:

- Tram Marseille
- Tram Vienna, Innsbruck, Linz
- Tram Porto
- Tram Manchester
- Tram Stockholm
- Tram Eskisehir
- Tram Colonia
- Tram Istanbul
- Tram Valencia
- Tram Budapest
- Metro Vienna V-Wagon
- Metro Bangkok
- Metro Singapur
- Metro Sao Paulo

Long distance trains:

- Trenitalia Italy
- TPC, Regio Olten, TC 250, CJ, MOB, Swiss
- Regio Olten, Swiss
- TAG Holland
- Helsinki, Finland
- Passenger coach ÖBB-Railjet, double passenger coach ÖBB Austria
- Passenger coach Israel
- Passenger coach Iran
- Passenger coach Bulgaria
- Passenger coach Great Britain
- Sleeping coach Germany
- Sleeping coach Czech Republic

Goods Wagons:

- Greek Railway
- Deutsche Bahn (German Railway)
- ÖBB (Austrian Railway)
- SBB (Swiss Railway)
- Rail Cargo Austria
- Goods wagons throughout Europe



INTERNATIONAL APPROVALS

Helios and Rembrandtin railway coating systems are tested in practice and approved by a multitude of well-known railway companies in different countries. They are approved by the JSC Railway Research Institute (VNIIZHT) and are listed according GOST standards. Our customers include manufacturers of the international railway vehicle industry in more than 40 countries worldwide – from the MAGLEV railway in Shanghai to the most recent fleet of the SBB Swiss Federal Railway. You too can profit from our approvals!





CUSTOMERS
WORLDWIDE
BENEFIT FROM
OUR EFFICIENT,
ECONOMIC AND
ENVIRONMENTALLY
FRIENDLY COATING
SYSTEMS FOR
DIFFERENT
DEMANDS.



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