

RAILWAY COATING SOLUTIONS

KANSAI HELIOS



CERTIFICATIONS & APPROVALS

DB ÖBB SBB CFF FFS

SNCF STM-N-801

- EN 45545-2 (fire protection)
- EN ISO 12944 (corrosion protection)
- REACH
- EPA TSCA
- EN ISO 9466

OUR COATING SYSTEMS:

Water-borne | Solvent-based | HIGH SOLID High-Solid | E-Coat

YOUR PARTNER FOR RAILWAY COATINGS

SINCE 1960

KANSAI HELIOS coating systems are developed to meet the demanding requirements of the railway industry, delivering safety, durability, and reliable long-term performance throughout the entire vehicle lifecycle. As a trusted partner of the global railway industry and part of a global coatings group, we combine local expertise with global innovation to support railway manufacturers and operators worldwide. Thanks to our international network within KANSAI PAINT, we draw on experience from across the global organization and are able to provide solutions such as the e-coat technology developed by KANSAI PAINT.

GLOBAL STRENGTH

Combining local support with global expertise, we leverage the knowledge and resources of our worldwide specialists to solve complex challenges, provide efficient technical service and supply across European and worldwide markets.

IN-HOUSE RESIN PRODUCTION

With our own resin production , we ensure consistent quality, reliable coatings supply, and tailored solutions for even the most demanding applications.

SMALL VOLUMES AND BIG FLEXIBILITY

Combining local support with global expertise, we leverage the knowledge and resources of our worldwide specialists to solve complex challenges, provide efficient technical service and supply across European markets.

DESIGNING EXCELLENCE – R&D AT THE HIGHEST LEVEL

At KANSAI HELIOS research and development is based on the highest standards, extensive know-how and a passion for inventive product solutions. We drive progress and innovation in our high-end laboratories.



ROOF

RELIABLE PROTECTION UNDER EXTREME CONDITIONS

Railway roofs are continuously exposed to UV radiation, temperature fluctuations, humidity, pollution and harsh weather conditions. KANSAI HELIOS coating systems provide long-lasting protection while maintaining their appearance over time.

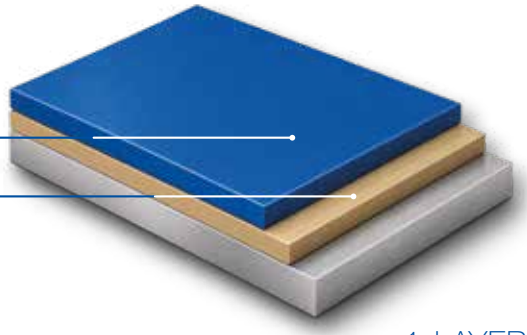
KEY FEATURES AND BENEFITS

- Excellent UV and weather resistance
- Long-term colour and gloss retention
- High thermal stability
- Protection against environmental ageing
- Reduced maintenance requirements

2-LAYER

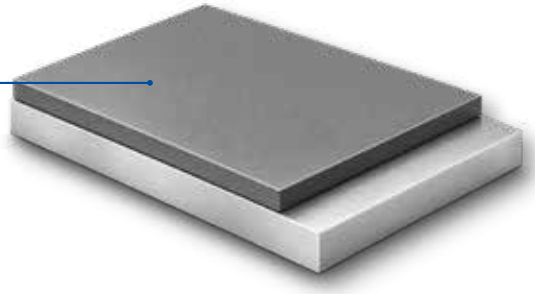
Topcoat

Primer



1-LAYER

PU Monocoat



HIGH SOLID



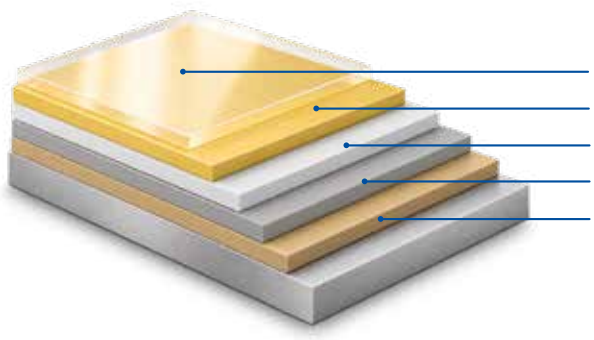
SIDE WALLS

OUTSTANDING APPEARANCE AND LASTING DURABILITY

Exterior sidewalls define the visual identity of a train while being exposed to daily operational and environmental stress. Our coating systems deliver premium aesthetics combined with excellent protective performance. Metallic and effect coatings can be applied to the most varied surfaces and are available as base or clear coat systems.

KEY FEATURES AND BENEFITS

- High-quality decorative finishes
- Excellent colour consistency and long-term colour retention
- Scratch and impact resistance
- Resistance to cleaning chemicals and graffiti removal
- Custom colours and premium metallic effects



5-LAYER

Clearcoat
Basecoat
Filler
Putty
Primer

HIGH SOLID



UNDERFRAME

MAXIMUM CORROSION RESISTANCE WHERE IT MATTERS MOST

The underframe is exposed to water, salt, ballast impact, dirt and aggressive operating conditions. Highly durable protection systems are designed to withstand these challenges.

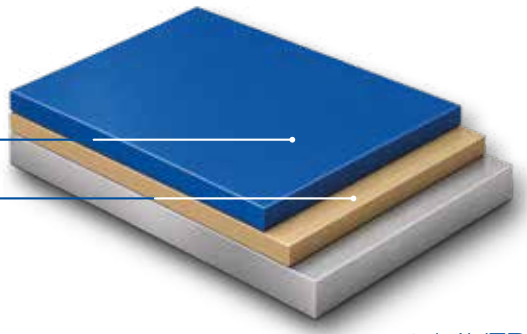
KEY FEATURES AND BENEFITS

- Outstanding corrosion protection
- Stone-chip and abrasion resistance
- Chemical and moisture resistance
- Enhanced durability in demanding environments
- Extended service life and maintenance intervals

2-LAYER

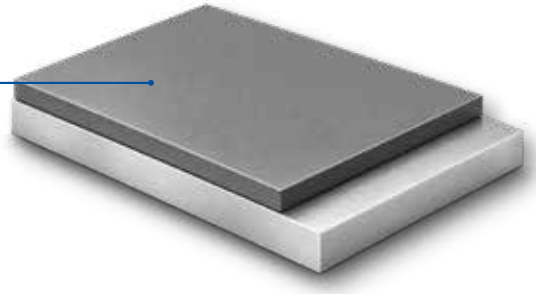
Topcoat

Primer



1-LAYER

PU Monocoat



HIGH SOLID



INTERIOR

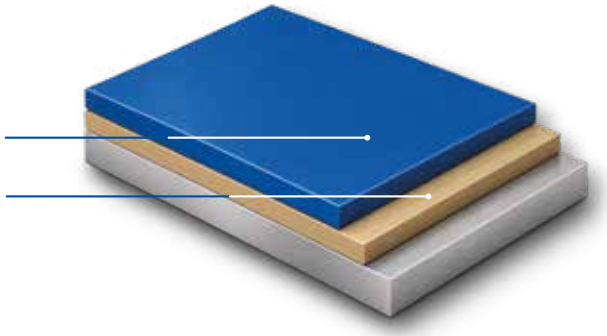
SAFETY, COMFORT AND DESIGN IN PERFECT BALANCE

Passenger expectations for comfort and aesthetics continue to grow while safety requirements remain critical. Our interior coating solutions contribute to an attractive, durable and compliant passenger environment.

KEY FEATURES AND BENEFITS

- Excellent abrasion and wear resistance
- Easy cleaning and maintenance
- Attractive appearance and design flexibility
- Long-lasting surface quality

2-LAYER



HIGH SOLID



PROVEN PROTECTION FOR MISSION-CRITICAL COMPONENTS

Railway vehicles consist of numerous components that require reliable protection against corrosion, wear and environmental influences. KANSAI HELIOS offers coating solutions for a wide range of structural and functional parts.

KEY FEATURES AND BENEFITS

- Long-term corrosion protection
- Consistent coating quality
- Improved durability and reliability
- Support for demanding operating environments

TYPICAL APPLICATIONS

- Bogies
- Chassis, frame structures and GRP frontmasks
- Doors and access systems
- Metal assemblies
- Mounting and fastening components
- Couplers
- HVAC Units

HIGH SOLID



ABOUT EVERY SECOND TRANSPORT VEHICLE PRODUCED IN JAPAN IS COATED WITH ELECRON. MORE THAN 700 COMMERCIAL E-COAT LINES WORLDWID ARE OPERATED WITH ELECRON E-COAT.

E-COAT

KANSAI HELIOS offers the modern e-coat solution Elecron, a Japanese technology developed by KANSAI PAINT. Specifically designed for cathodic electrodeposition and low-voltage applications, this advanced technology delivers robust and long-lasting protection for railway vehicles, ensuring reliable performance even under demanding operating conditions.

KEY FEATURES AND BENEFITS

- Water-borne 2K epoxy coating
- Formulated for cathodic electro-deposition application
- Curing at low temperatures
- Japanese precision and innovation



FREIGHT WAGONS & BOGIES

Reliable protection for demanding rail freight applications
Freight wagons operate under demanding conditions: mechanical stress, weather exposure, chemicals, cleaning processes and long service intervals. KANSAI HELIOS offers proven coating systems for all applications in freight wagon areas. Whether the focus is on reducing production time, improving durability or lowering maintenance costs, our coating technologies can be tailored to different manufacturing and operating requirements.

APPLICATION FIELDS

- **Underframes and underbody protection**
- **Freight wagon exterior surfaces**
- **Bogies and wheelsets**

KEY FEATURES AND BENEFITS

- Protection against corrosion, mechanical stress, and UV exposure
- High-build systems for demanding mechanical loads, stone chipping resistance
- Heavy-duty solutions with excellent resistance to moisture, salts, de-icing agents
- Low-VOC, water-borne and high-solid systems
- Direct-to-metal systems
- Fast-curing technologies
- Solutions for new-build and refurbishment projects

SPECIAL SOLUTIONS

- Internal Linings & Food Contact Coatings
- High-performance solutions for container

CERTIFICATIONS & APPROVALS

DB ÖBB SNCF STM-N-801

Tested in accordance to EN ISO 12944 up to C5-H

HIGH SOLID

OUR PLANET IS EVERYONE'S RESPONSIBILITY.

As a leading international supplier of paints and coating systems, our mission has always been to protect assets and extend their service life. By enhancing durability and preventing premature replacement, our coating solutions help preserve resources and create long-term value. This commitment to durability and resource efficiency is embedded throughout the KANSAI HELIOS Group and is particularly relevant to the rail industry, where reliability, longevity and resource efficiency are essential. Together with our customers and partners, we are committed to advancing more resource-efficient practices and helping shape the future of rail mobility.

OUR FOCUS



Global network, local presence
Combining international manufacturing capabilities with local expertise to support customers efficiently across global rail markets.



Product alternatives with bio-based raw materials
Offering selected coating solutions that incorporate bio-based raw materials as part of our ongoing commitment to innovation and product development.



Resource-efficient application processes
Developing innovative coating technologies that help reduce energy consumption, material usage and process times.



Continuous innovation
Investing in technologies that support efficient and future-oriented railway operations.

LET'S SHAPE THE FUTURE OF RAIL PROTECTION TOGETHER.



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