NCPL
high-performance coatings and specialties

Program for the Surface Finish of Industrial Products and Rail

Bright prospects

Initial situation known & present	Sustainability is becoming more and more of an issue: European and International railway companies, together with the wagon construction, wagon repair and paint industries, recognized very early on the need to use highly effective, solvent-reduced high-solid systems as well as environmentally friendly and low-solvent water-based paint systems.
NCPL -Working area consistent & continuous	Many years of extensive laboratory and practical tests have meant that we can now offer suitable and tried-and-tested coating systems. The focus is always on realistic processability, taking into account the specifics of the application area.
Services consistent & effective	Exterior, interior, cargo, bogie/wheelset – we offer a comprehensive product portfolio of water-dilutable, solvent-based, solvent-reduced and solvent-free paints and systems under the names aquatic and solvatic. Our coating systems have been tested and approved by a large number of European railway companies. They have been used successfully both at home and abroad for many years. Renowned railway companies are among our customers.
Certification tested & proven	The basis of our work is the certifications according to ISO 9001, ISO 14001 as well as numerous approvals from Deutsche Bahn, Austrian Railways, Russian Railways, VTG and several private railway companies.

On the following pages you will find our solvent-based and water- dilutable coating systems as well as an example system proposal for wheel set coating. The coating systems listed represent only a selection of our diverse portfolio. We would also be happy to put together individual systems that are tailored to your specific requirements and processing conditions. Our products are available in all common colors (e.g. RAL or DB) and according to individual requirements.

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Optimized system solutions for RAIL Passage and Cargo

Water-dilutable 2K acrylic polyurethane topcoats and 2K epoxy primers have been supplied by **NCPL** for over 5 years for the series painting of rail vehicles. Vehicles have been painted in series with the innovative base/clear coat system. Well over 500 passenger coaches (PASSAGE) have been coated, which are used under the most extreme weather conditions, from tropical to polare Climates. In addition to the paint systems for passenger coaches and locomotives (PASSAGE), we have developed an extensive product portfolio for freight wagons.

Starting with 1K products for the cost-effective repair of simple freight wagons to high-quality 2K epoxy thick-layer systems, which are also suitable for food transport, for example. Hundreds of freight wagons (CARGO) have already been successfully coated with our products at home and abroad. Our water-dilutable paint systems (aquatic) meet the high quality requirements and the legal guidelines regarding solvent emissions (VOC). The products do not contain any heavy metals, chlorinated hydrocarbons or other harmful ingredients. In addition to classic products, we also offer such as anti-noise coatings, high-performance structural and effect paints for plastics and metals. A variety of colors for individualization, wiping and cleaning ability as well as the best resistance to mechanical influences are prerequisites for use - AE82 and can guarantee this.



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Water-dilutable coating materials:

aquatic®

Brand name	Type	Product Name
aquatic-1K-AY-metal primer	ACRYLIC	AG42
aquatic-2K-EP-metal primer	EPOXY	BG04
aquatic-1K-AY-single layer	ACRYLIC	AD47
aquatic-1K-AY-base coat	EPOXY-ACRYLIC	AD75
aquatic-2K-EP-top coat	EPOXY	BD10
aquatic-2K-EP-anti-slip	EPOXY	BD12
aquatic-2K-EP-elastic thick layer	EPOXY	BD16
aquatic-2K-EP-wheelset coat (thermosensitive)	EPOXY	BD18
aquatic-2K-PUR-intermediate coat	POLYURETHAN	BG05
aquatic-2K-PUR-base coat	POLYURETHAN	BG55
aquatic-2K-PUR-top coat	POLYURETHAN	BD59
aquatic-1K-AY-underbody protection	ACRYLIC	AD60
aquatic-1K-AY- underbody protection + iron mica	ACRYLIC	AD61



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Solvent-based coating materials:

solvatic®

Brand name	Type	Product Name
solvatic-1K-AK-metal primer	ALKYD	KG58
solvatic-2K-EP-metal primer	EPOXY	ZG64
solvatic-1K-AK-single layer	ALKYD	KD91
solvatic-1K-AK-top coat	ALKYD	KD31
solvatic-2K-EP-top coat	EPOXY	ZD73
solvatic-2K-EP-anti-slip	EPOXY	ZD95-S
solvatic-2K-EP-elastic thick layer	EPOXY	ZD95
solvatic-2K-AY-PUR primer filler	POLYURETHAN	ZG23
solvatic-2K-AY-PUR topcoat	POLYURETHAN	ZD23
solvatic-2K-EP-Single-layer-solventfree	EPOXY	ZG97
solvatic-2K-EP-primer	EPOXY	ZG80
solvatic-2K-AY-PUR-primer filler	POLYURETHAN	ZG20
solvatic-1K-AY-CAB-base coat	ACRYLIC-CAB	KM10
solvatic-2K-PUR-top coat	ACRYLIC-CAB	ZD55



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Anti-graffiti products

As graffiti vandalism increased, the demand for corresponding products grew. We have taken up this challenge and developed a complete anti-graffiti program. We offer the following products for rail vehicles.

Brand name	Type	Product Name
aquatic-2K-AY-PUR-top coat	POLYURETHAN	BD60-0
solvatic-2K PUR-top coat (clear coat)	POLYURETHAN	ZD54-0
solvatic-2K-PUR-Anti-graffiti coat	POLYURETHAN	ZD11
aquatic-2K-PUR-Anti-graffiti coat (solventfree)	POLYURETHAN	BD80

Interior coating with hygiene certificate

We also offer coating materials for interior use. Here, other properties are the focus: the integrity of the goods being transported is the top priority.

Our ZD95 and ZG97 are emission- and solvent-free, abrasion-resistant 2K coatings based on high-quality epoxy resin binders with excellent resistance to water and chemicals. The product is ideal for coating the inside of steel containers. Approval in accordance with the Food and Drinking Water Ordinance is available.



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Our system for wheel sets

Our wheel set coating system consists of a 2K base coat based on a water- dilutable epoxy resin dispersion and a water-dilutable two-component top coat based on an elasticized epoxy resin dispersion.

This structure results in high mechanical strength and resistance to grease, oil, salts and chemicals. Due to the thermosensitive behavior of the top coating, overheating of wheel set parts can be recognized by the coating flaking off above 280 °C.

Brand name	Type	Product Name
aquatic-2K-EP-metal primer	EPOXY	BG04
aquatic-2K-EP-wheelset coat (thermosensitive)	EPOXY	BD18





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