Machine Translated by Google

novatic®
THE COATINGS GROUP



INDUSTRIAL
RAIL

Machine Translated by Google

Table of contents

We for you 3

System solutions 4

Water-dilutable products 5

Solvent-based products 6

Anti-graffiti products 7

Interior coating 8

System proposal: wheel sets 9

Reference project: Russian Railways 10



Machine Translated by Google

Bright prospects

Initial situation
known & present

Sustainability is becoming more and more of an issue: European and Eurasian 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.

novatic®-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 to.

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.

Talk to us, we will be happy to help you!



Machine Translated by Google

Optimized system solutions for RAIL Passage and Cargo

Water-dilutable 2K acrylic polyurethane topcoats and 2K epoxy primers have been supplied by novatic for over 10 years for the series painting of rail vehicles. Vehicles have been painted in series with the innovative base/clear coat system since 1998. Since then, well over 2,500 passenger coaches (PASSAGE) have been coated, which are used under the most extreme weather conditions, from the Baltic States to Siberia. 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. Thousands 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.

aquatic solvatic ZS04



Machine Translated by Google

Water-dilutable coating materials:
aquatic

Brand name	type	Product name
aquatic -1K-AY-metal primer wv	ACRYLIC	AG42
aquatic -2K-EP-metal primer wv	EPOXY	BG04
aquatic -1K-AY-single-layer paint wv	ACRYLIC	AD47
aquatic -1K-AY base coat (Base Coat) wv	EPOXY-ACRYLIC	AD75
aquatic -2K-EP topcoat wv	EPOXY	BD10
aquatic -2K-EP anti-slip coating wv	EPOXY	BD12
aquatic -2K-EP thick layer elasticized wv	EPOXY	BD16
aquatic -2K-EP wheelset coating thermosensitive wv	EPOXY	BD18
aquatic -2K-PUR intermediate coating wv	POLYURETHAN	BG05
aquatic -2K-PUR base coating (Base Coat) wv	POLYURETHAN	BG55
aquatic -2K-PUR topcoat wv	POLYURETHAN	BD59
aquatic -1K-AY-underbody protection wv	ACRYLIC	AD60
aquatic -1K-AY underbody protection with iron mica wv	ACRYLIC	AD61



Russian Railway, Special Edition for the Olympic Winter Games in Sochi 2014, coated with our 2K system

Machine Translated by Google

Solvent-based coating materials:

solvatic

Brand name	type	Product name
solvatic -1K-AK primer	ALKYD	KG58
solvatic -2K-EP primer	EPOXY	ZG64
solvatic -1K-AK single-layer paint	ALKYD	KD91
solvatic -1K-AK top coat	ALKYD	KD31
solvatic -2K-EP topcoat	EPOXY	ZD73
solvatic -2K-EP anti-slip coating	EPOXY	ZD95-S
solvatic -2K-EP thick layer elasticized	EPOXY	ZD95
solvatic -2K-AY-PUR primer filler	POLYURETHAN	ZG23
solvatic -2K-AY-PUR topcoat	POLYURETHAN	ZD23
solvatic -2K-EP-Single-layer-LF	EPOXY	ZG97
solvatic -2K-EP primer	EPOXY	ZG80
solvatic -2K-AY-PUR primer filler	POLYURETHAN	ZG20
solvatic -1K-AY-CAB base coat	ACRYLIC CAB BASE	KM10
solvatic -2K-PO top coat	ACRYLIC POLYURETHANE	ZD55



Machine Translated by Google



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-topcoat wv*	POLYURETHAN	BD60-0
solvatic -2K PUR top coating (clear coat)*	POLYURETHAN	ZD54/E8
Graffiti remover (liquid)*	CLEANER	XX05
Graffiti remover (gel)*	CLEANER	XX07
Anti-graffiti cleaning wipes*	CLEANER	H850
Anti-graffiti protective varnish (lh)*	POLYURETHAN	ZD11
Anti-graffiti protective varnish (lf)*	POLYURETHAN	BD80/with ZH85

*colorless



Machine Translated by Google

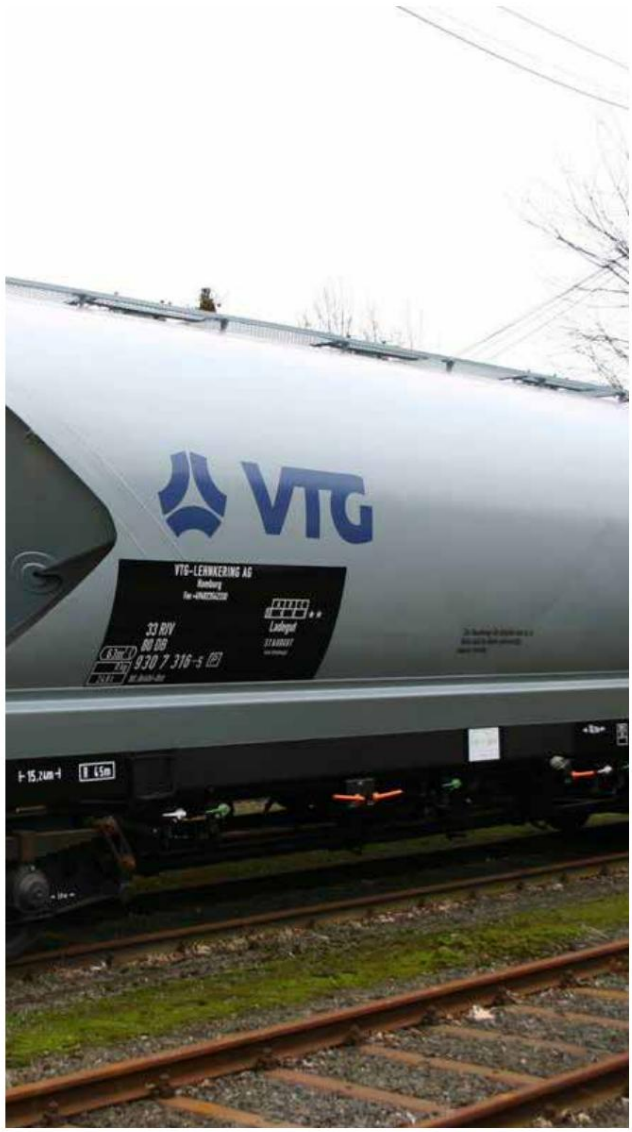
Interior coating with hygiene certificate



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.





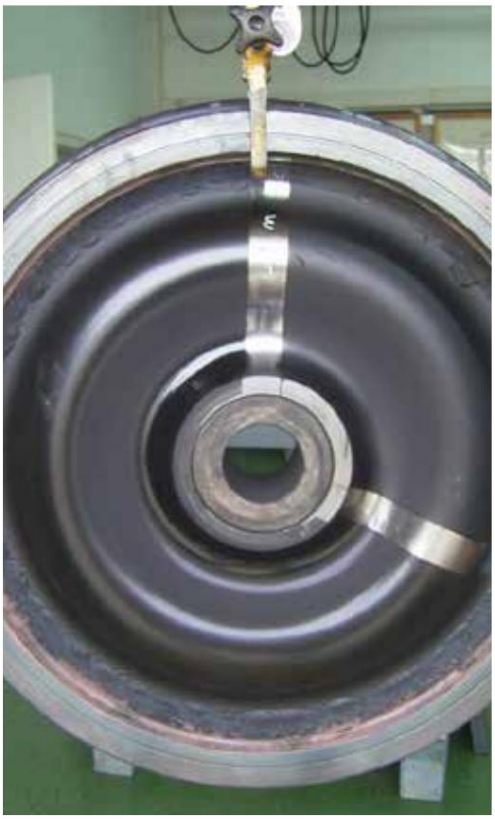
Machine Translated by Google

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 wv	EPOXY	BG04
aquatic-2K-EP wheelset coating thermosensitive wv	EPOXY	BD18



Thermosensitivity



Coating Ateliers de Joigny SAS

Machine Translated by Google

Reference project: Russian Railways



The Russian Railways is currently coating its rail vehicles with our system, which is precisely tailored to the customer's requirements.

The system mentioned is used for passenger carriages and for the light-reflecting strips on certain carriages, such as suburban trains.
Different RAL colours and layer thicknesses are delivered and applied.

primer		Primer filler		Topcoat	Clear coat		sum
Product DFT (µm)		Product DFT (µm)		Product DFT (µm)	Product DFT (µm)		in µm
ZG80	50–60	ZG20	40–70	KM10 20–60	ZD55	50–60	160–250

This system consists of products from our solvatic -Sorti-ment together.



Machine Translated by Google

1990 Power plant coatings

1994 Heavy corrosion protection
Sheet 87 & Introduction of water-soluble varnishes

2003 Recording of special
Developments for wind turbines and introduction
of protection systems

2004 Introduction of water-dilutable dip coatings

2006 Introduction of solvent-free
Coating materials

2007 patent
Concrete tower coating

2014 Introduction of solvamix Industrial coatings and the solvamix-OEM-Vehicle paints

2016 Introduction of the brand "novax-Premium Refinishing" for the OEM & Refinish Division



Our products are used by well-known clients in Germany and abroad. We would be happy to be a reliable partner for you too.
ner.

We focus on customer proximity, flexibility, service, continuous development work and permanent dialogue with you.

Since 1990, our name has been a reference to the pioneering quality of our
rer products. Our work is based on our expertise and experience. Today, over 250 highly qualified employees stand for the values that our customers value: quality, professional advice, short delivery times and profitability.

Our certifications according to DIN EN ISO 9001 and DIN EN ISO 14001 prove the quality of our work.

We would be very happy to work with you too.
We want to contribute to our success together in the markets of the future.

Our name stands for high-quality, innovative and sustainable **paint and varnish systems** for the **PROTECTIVE, INDUSTRIAL, AUTOMOTIVE, INTEGRATED TINTING** and **DECORATIVE sectors,** which have proven themselves and established themselves in their respective business areas on the global market.

We are happy to assist you with all your needs.
Contact us. We look forward to assisting you.

info@novatic.com
www.novatic.com

Status: 16.07.2018
Publisher: Dresdner Lackfabrik novatic GmbH & Co. KG *Subject to changes and errors.*
All statements without guarantee.

Photo credits: Title and page 10 bottom: © OrtodoxFoto/iStock · Page 4: © monticello/ Shutterstock · Page 7 top: © morganlane/Shutterstock · Page 7 bottom: © Arthur Eugene Preston/Shutterstock · Page 10 top: © VLADJ55/ Shutterstock · novatic® archive

Machine Translated by Google

novatic® Group

novatic COATINGS GmbH & Co. KG Clemens-Müller-Str. 5 01099 Dresden Germany Phone: +49 351 82991 0

Fax: +49 351 80414 43 Email: info@novatic.com

Hallesche Lackfabrik novatic GmbH Julius-Ebeling-Str. 2 06112 Halle Germany Phone: +49 345 131615 0

Fax: +49 345 131615 14 Email: halle@novatic.com

novatic COATINGS sro

Masarykova 58 415 02 Teplice Czech Republic Phone: +420 417 531 786 Email: info-cr@novatic.com

novatic **COATINGS Sp**

novatic-austria-gmbh

Plainbachstrasse 12 5101 Bergheim/Salzburg Austria

Telephone: +43 662 453652 +43 662 Fax: 453712 Email: info-at@novatic.com

novatic France

France & Belgium Phone: +33 625 800 266 Fax: +49 351 804 14 43 Email: info-fr@novatic.com

OOO novatic COATINGS

Kavkazsky Boulevard, 51, building 3 115516 Moscow Russia Phone: +7 495 980 09 95 Fax: +7 495 980 09 95 E-mail: info-ru@novatic.com

novatic COATINGS MENA FZCo PO Box 17981 JAFZA South S1201 FZS5 BC06 Jebel Ali/Dubai United Arab Emirates Telephone: +971 4 88 12 830 +971 4 88 12 829 Fax: Email: info-uae@novatic.com

novatic COATINGS Pvt. Ltd.

Survey No. 271/Gat no. 924 Nehru Industrial Estate Pirangut, Taluka Mulshi 412115 Pune (Maharashtra)

India Phone: +91 20 6400 6040 Email: info-in@novatic.com

novatic®- cooperation partner

Arabian Metal Industries Ltd.

Medinah Road, Kilo 14 21432 Jeddah Kingdom of Saudi Arabia Phone: +966 2 682 1410 Fax: +966 2 682 9657 Email: info-ksa@novatic.com

Frankowski Coating sp. z oo sp. K

ul. Batalionów Chÿopskich 14/2 83-000 Pruszcz Gdaÿski Poland Telephone: +48 58 773 13 00 Fax: +48 58 773 13 01 E-mail: biuro@frankowskicoating.pl

JOMASA INNOVATEC SL

C/Kripton, 4 Pol.Ind. San Cristobal 47012 Valladolid Spain Telephone: +34 983 39 79 18 Fax: +34 983 30 95 61 Email: admin@jomasainnovatec.com

UAB Knortas

Rokeliÿ g. 50 Kaunas 46148 Lithuania Telephone: +370 37 31 25 36 Email: novatic@knortas.lt

OLI KOOP doo

Kneza Milosa 188A 36210 Vrnjacka Banja Serbia Telephone: +381 36 618300 Email: olikoop@mts.rs

Monicolor doo

Dražgoška ulica 2 4000 Kranj Slovenia Telephone: +386 42 360 040 Fax: +386 42 360 041 Email: kr@monicolor.si

Monicolor MS doo

Lendavska ulica 29 9000 Murska Sobota Slovenia Telephone: +386 2 521 44 65 Fax: +386 2 521 44 64 Email: ms@monicolor.si

CHEMO COMMERCE doo

Privalj 5 88226 Siroki Brijeg Bosnia-Herzegovina Telephone: +387 0 39 711 700 Email: info@chemo-commerce.com

STOGRUP LLC

Vyzvolyteliv 5 02660 Kiev Ukraine Phone: +38 095 282 04 80 Email: info-ua@novatic.com

KALINA doo

Kalina 2 51000 Rijeka Telephone: +385 51 412 712 Fax: +385 51 459 069 Email: info-hr@novatic.com

Nagy Akos Lajos ev

Bajcsy Zsilinszky utca 43 2230 Gyömrÿ Hungary Telephone: +36 209352028 Email: akos.nagy@novatic.com

TM-COLOR SRL str. Rakoczi Ferenc no. 32 535600 Odorheiu Secuisc Romania Telephone: +40 266 214790 Email: office@tmcolor.ro

Asia Polyurethane Mfg Pte Ltd 22 Tuas Crescent Singapore Telephone: +65 6861 6688 Fax: +65 6861 2277 Email: info-singapore@ novatic.com

4
Production sites

22
Sales locations

57
Export countries

245
Employees

15,500,000 kg
Color production per year