



CORE PLATE VARNISHES

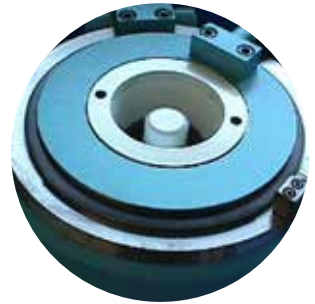
INNOVATIVE SOLUTIONS FOR THE INDUSTRY

Rembrandtin



REMBRANDTIN
IS ONE OF
THE WORLD'S
LEADING
PRODUCERS
OF SPECIALITY
COATINGS

REMBRANDTIN STANDS FOR TRADITION, QUALITY AND INNOVATION



HIGHTECH COATINGS FOR DIFFERENT REQUIREMENTS

The history of Rembrandtin Lack GmbH Nfg. KG dates back to the year 1937. Today, the company is a specialist for high-tech coatings like core plate varnishes, high-temperature resistant systems, protective coatings or railway coatings. Decades of experience make Rembrandtin a reliable partner with global approvals from market leaders in the general industry and the automotive sector. Since 2014, the company has been part of the Helios Group, which belongs to the top ten companies of the European coatings industry.

YOUR PROFESSIONAL PARTNER WORLDWIDE

Rembrandtin exports more than 70 % of its products. The worldwide sales representations enable the company to support the customers in their domestic markets.

RESEARCH AND DEVELOPMENT – ECOFRIENDLY & SUSTAINABLE

Around 35 % of employees work in research and development. The experienced professionals develop the special properties of the product solutions to meet the requirements of the customers and the steadily rising demands of the industry. In this context preserving sustainability is of major importance – thus in 2012 Rembrandtin was the first Austrian company to receive the European Responsible Care award.





REMISOL CORE PLATE VARNISHES

Rembrandtin Remisol core plate varnishes are specifically developed for the electrical insulation of electrical steel with special emphasis on **environmental compatibility** of the coatings. Therefore, all Remisol product solutions are waterborne and **100 % chromium-free**.

Rembrandtin offers tested solutions meeting the **highest quality standards** of the industry and tailored specifically to customer demands.

All Remisol products are classified according to ASTM A 976-97 (Standard Classification of Insulating Coatings by Composition, Relative Insulating Ability and Application) and IEC 6040-1-1. Furthermore, they comply with numerous directives of European legislation:

- 2000/53/EC („ELV“) including amendment 2002/525/EC in Annex II
- 2002/95/EC („RoHS“)
- 2002/96/EC („WEEE“)
- 2006/122/EC („PFOS“)

In line with REACH, Rembrandtin regularly tests the composition of raw materials in cooperation with suppliers and is thus able to ensure that Remisol core plate varnishes do not contain any SVHC enlisted in the REACH Regulation.

MORE THAN
30 YEARS OF
EXPERIENCE IN
DEVELOPING
AND PRODUCING
CHROMIUM-FREE
COATINGS FOR
CRNO ELECTRICAL
STEEL STRIPS AND
SHEETS MAKE
REMBRANDTIN THE
MARKET LEADER.



REMISOL C-3 / EC-3

Remisol C-3 is a **purely organic coatings range** made of **thermally stable polymers**. It is used to insulate electrical steel which is not exposed to any further annealing process and impresses with excellent punchability offering decisive advantages particularly for the processing of steel sheets: The service life of the punching tools is prolonged significantly and wear of the machinery is minimised.

REMISOL EB 503 LS

This coating is based on thermally stable phenolic resins. It is waterborne, chromium-free, and RoHS-compliant. Remisol EB 503 LS withstands continuous exposure to **temperatures of up to 180°C** and is suitable for a **coating thickness range of 0.5 to 6µm**.

REMISOL EB 3000

This newly developed product is particularly environment-friendly, solvent-free, and formaldehyde-free. Remisol EB 3000 withstands continuous exposure to **temperatures of up to 180°C** and is suitable for **film thicknesses between 0.5 and 6µm**.

REMISOL EB 548 / EB 549 Bonding Varnishes

Products of the Remisol Bonding Varnish range are designed for the **dry bonding of core plates** and applied in many international projects such as wind turbines or the Transrapid magnetic levitation train in Shanghai. This **purely organic** epoxy coating is suitable for **film thicknesses between 2 and 8µm**.

PROPERTIES

- Purely organic
- Water-reducible, chromium-free
- Excellent punchability
- Particularly suitable for fast-running punching machines



REMISOL C-4 / EC-4

Remisol C-4 coating solutions are **inorganic insulation varnishes** which impress with their excellent anti-stick properties. Remisol C-4 insulation coatings are particularly well suited for copper and aluminium pressure die casting, offer excellent welding properties and are extremely resistant to annealing.

REMISOL EB 5620

This inorganic, waterborne anti-stick coating prevents stampings from sticking together during the annealing process and is resistant to continuous exposure to **temperatures of up to 300°C**. Remisol EB 5620 ensures excellent weldability and annealing resistance in the coating process. The product is suitable for **film thicknesses between 0.5 and 1µm**.

PROPERTIES

- Inorganic coating
- Excellent anti-stick properties
- Outstanding weldability
- Resistant to annealing
- Water-reducible





OPTIMISE BY
INSULATING:
REMISOL CORE
PLATE VARNISHES
OFFER A VARIETY
OF APPLICATION
POSSIBILITIES AND
MEET THE HIGHEST
QUALITY STANDARDS.



REMISOL C-5 / EC-5

The hybrid coating systems of the Remisol C-5 range mainly consist of inorganic ingredients while adding organic elements ensures outstanding punchability. Remisol C-5 insulation varnishes are very well suited for aluminium pressure die casting and stress relief annealing and offer an excellent weldability.

REMISOL EB 5350 S

Remisol EB 5350 S is a filler-free inorganic/organic hybrid varnish with a higher synthetic resin content. It offers excellent punchability and is resistant to continuous exposure to **temperatures of up to 210°C**. It meets all requirements regarding good weldability and **annealing resistance up to 1.5 µm**.

REMISOL EB 5308

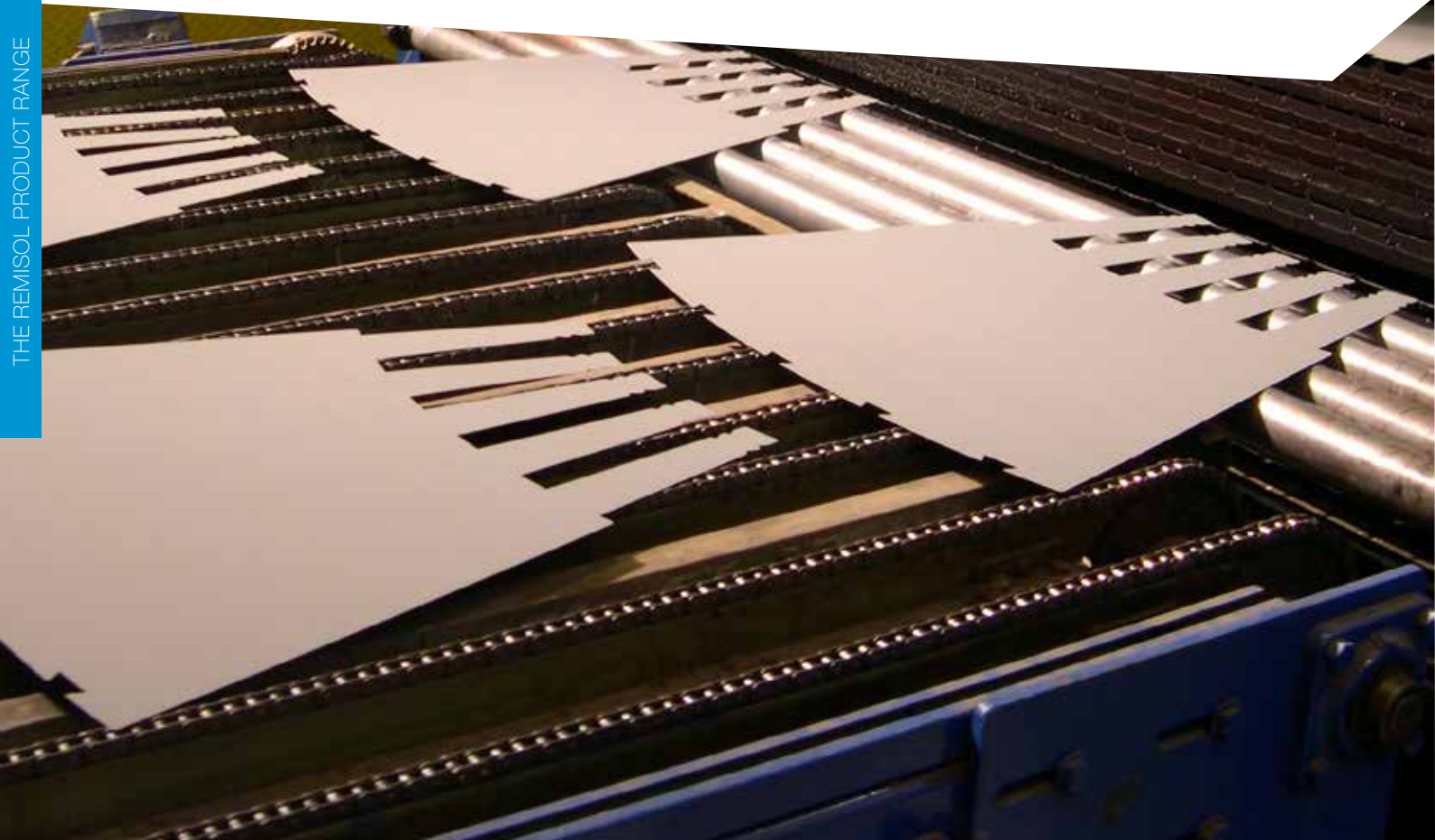
This inorganic/organic hybrid varnish contains electrical insulating inorganic pigments and a lower amount of organic resins. This coating persuades by its continuous **temperature resistance of up to 270°C**. Remisol EB 5308 has outstanding welding and annealing properties up to 2.5 µm. **Film thicknesses of up to 6µm** are possible when insulation requirements are higher.

REMISOL EB 5091

This coating system is alkaline and cures quicker but is less resistant to annealing compared with acidic coatings. It has **excellent punching properties** and is suitable for aluminium pressure die casting. Remisol EB 5091 offers good weldability up to a **film thickness of 2.5 µm** and withstands a continuous exposure to **temperatures of up to 180°C**. After reference annealing, a dark-shaded residual insulation remains.

PROPERTIES

- All-purpose varnish
- Excellent weldability
- Excellent punchability; prolongs the service life of punching machines



REMISOL & DYNOPHEN C-6 / EC-6

The coating systems of insulation class C-6 **meet the highest requirements** regarding electrical insulation. Remisol and Dynophen C-6 / EC-6 are based on **thermally stable, organic polymers** with a high inorganic filler content. These contribute to increasing pressure resistance. Remisol and Dynophen coatings are used in high-voltage machines and withstand the burn-off of the motor winding during motor repair.

PROPERTIES

- Highly filled insulation varnishes
- Increase pressure resistance
- Burn-off resistant

REMISOL EB 500 AND DYNOPHEN GRAU

These highly filled coatings are based on thermally stable synthetic resins. Remisol EB 500 and Dynophen grey electrical insulations are permanently resistant to **temperatures up to 180°C**. They are particularly well suited for pressure resistant and highly insulating coatings for generator and motor laminations and for **film thicknesses between 2 and 10µm** per coating step.

REMISOL 500 FF

Remisol EB 500 FF is **completely free from formaldehyde** and does not release any formaldehyde when heated. The product is suitable for **film thicknesses between 2 and 10µm** per coating step.

REMISOL EB 6000

Remisol EB 6000 is the latest development of the Rembrandtin C6 coatings range. It is **formaldehyde-free** and does not release any formaldehyde during machine operation. The high inorganic filler content ensures **best pressure resistance** values of steel packages insulated with EB 6000. The **film thickness range lies between 2 and 10µm** per coating step.



CERTIFICATES AND AWARDS

Rembrandtin has been focusing for many years on quality and sustainability. The company has received numerous awards.

- 2012 European Responsible Care Award
- Since 2011 OHSAS 18001:2007
- 2011 Nomination for Daphne Environmental Award – „Excellent Project“
- 2011 Nomination for Daphne Environmental Award of the City of Vienna
- 2011 Future Award of the City of Vienna – Category „Products and Application“
- 2006 Refuse Manager of the Year
- 2000, 1999 Environmental Award of The Austrian Economy
- Since 1998 ISO 14001:2004
- Since 1998 EMAS
- 1997, 1996 Mercur Award
- Since 1995 ISO 9001:2008
- 1995 Ecological Manager of the Month
- Since 1994 Responsible Care Award
- 1994 Environmental Award of The Viennese Economy
- 1992 Environmental Oscar



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