



**ROWA LACK
SPECIAL LACQUER SYSTEMS AND TOP COATS**



ROWA LACK 



ROWA GROUP, Pinneberg

2 ROWA LACK – THE COMPANY



Ningbo ROWA Coatings

ROWA GmbH was established in 1958 in Seevetal near Hamburg as a rubber-processing company. In 1969 the company started to produce high-quality lacquer systems, matting concentrates and additive systems for the coatings and plastics industry.

Since 2010 ROWA Lack is a member of the ROWA GROUP. With its long-established experience, technical competence, modern product design and customer-oriented services, ROWA Lack has become one of the market leaders for the surface finishing of coated textiles.

With its official subsidiary in China – the Ningbo ROWA Coatings headquartered in Ningbo – the company strengthens its long-standing market profile and boosts the service quality.

Together with its customers, ROWA Lack develops tailor-made solutions – because customer satisfaction is our number one priority. Whether developing new, innovative lacquer systems or optimizing lacquer processes, ROWA Lack offers flexibility and personal consultation. New products are always developed with respect to the use of environmentally friendly raw materials and state-of-the-art technology.

For new and further developments special attention is paid to the solvents, in particular with regard to the SVHC candidate list (SVHC: substances of very high concern), Annex XIV (List of substances subject to authorization) and Annex XVII (List of restrictions) of the REACH Regulation. Therefore, owing to continuous optimization, research and development, ROWA Lack is able to offer SVHC-free alternatives for many established systems.



ROWA GROUP – THE COMPANY GROUP

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As a well-established group of companies, all partners of the ROWA GROUP form a strong connection. Synergetic competences and the specialization of each individual company are used meaningfully to be able to offer absolute top quality at attractive prices.

Employee interfaces:

- Short channels
- Unified logistics
- Slim administrative structures

Shared laboratories:

- State-of-the-art testing equipment
- Highest level of quality standards

Internal transfer of know-how:

- Flexibility and creativity for developing new products

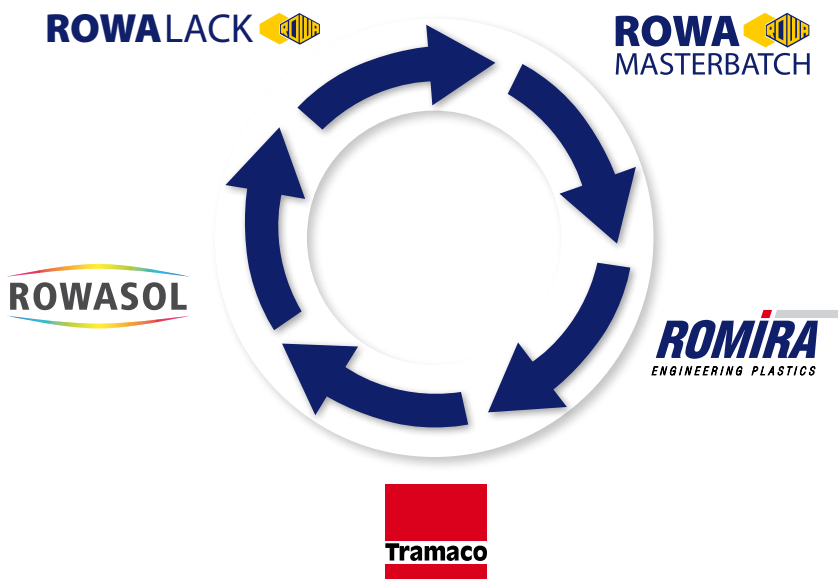
Special developments in partner companies:

- Expansion of the product portfolio to include interesting and cost-effective combinations

ROWA GROUP Holding



Successful teams benefit from the skilled collaboration of expert specialists. ROWA GROUP sees itself as a highly effective team. Indeed, due to the collaborative use of our technical infrastructure, to our uniform logistics, to the knowledge transfer among our employees and to straightforward administration processes, we extend the creative and economic scope of our individual enterprises on a daily basis. As quality assurance is a firm principle of the ROWA GROUP, the quality management systems at all companies are DIN EN ISO 9001 certified and sub-segments are DIN EN ISO 14001 and DIN EN ISO 50001 certified.





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ROWA Lack is a leader in the area of lacquer systems for the surface treatment of synthetic films and foils. The primary applications are high-quality lacquer systems for coating and finishing PVC and PU-coated fabrics and PVC and TPO foils.

With a yearly capacity of over 10,000 tonnes, ROWA Lack supplies to its customers in the plastics processing industry worldwide from locations in Pinneberg, Seevetal, Yesan (South Korea) and Ningbo (China). Most of the products are available as solventborne or waterborne lacquer systems.

ROWAKRYL® High-quality 1K and 2K acrylic lacquers	ROWAFLON® Fluoropolymer lacquer systems for textile constructions	ROWATHAL® Aromatic and aliphatic polyurethane lacquers, 1K and 2K systems
ROWALID® TI Pigmented lacquers and printing inks mainly for effect lacquering of coated fabrics	ROWANYL® Topcoats for PVC artificial leather, especially recommended for the transfer coating process	ROWATHAN® Coating systems for fabrics and films, based on acrylates and polyurethanes
ROWADEKOR® High-quality 2K lacquer systems for furniture films and decor foils	ROWALID® Pigment Preparations Highly concentrated monopigment preparations, finely dispersed in different carrier systems	ROWASET Crosslinkers, slip additives, lubricants, surface modifiers, wetting and leveling agents, UV absorbers, defoamers, thickeners and stabilizers
ROWABASE Toll manufacturing	ROWASIL Organic and inorganic matting agent concentrates, finely dispersed, highly efficient	ROWEX Universal, transparent printing ink carriers; ideal combination partner for ROWALID® Pigment Preparations



ROWA LACK – APPLICATIONS

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SVHC-FREE LACQUER SYSTEMS

As a result of continuous optimization and further development, the products shown in the tables are exclusively SVHC-free lacquer systems.

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWAKRYL® G-34643	13,4	MEK, THF, PMA, IPA	Truck covers, halls, tents
ROWAKRYL® G-35089	13,6	MEK, PMA, Acetone	Truck covers, halls, tents, awnings
ROWAKRYL® G-35326W	21,5	Water, EDG, IPA	Truck covers, halls, tents, awnings, waterbased
ROWAKRYL® G-35397W	21,5	Water, EDG, IPA	Truck covers, halls, tents, awnings, waterbased
ROWAFLO® G-75277	15,5	MEK, PMA	Halls, tents, low soiling
ROWAKRYL® G-34316W	27,0	EDG, Water	PVC roofing membranes, waterbased
ROWALID® TIM-95221	13,3	MEK, PMA, Acetone	Truck covers, awnings, effect lacquering, silver, weather resistant
ROWALID® TIM-95371W	22,8	Water, EDG, IPA	Truck covers, awnings, effect lacquering, silver, weather resistant, waterbased

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWAKRYL® G-35167	15,6	MEK, PMA, Acetone	Backlit, frontlit, side-curtain
ROWAKRYL® G-35376	18,6	MEK, PMA, Acetone	Backlit, frontlit, side-curtain
ROWAKRYL® M-35377	20,5	MEK, PMA, Acetone	Backlit, frontlit, side-curtain
ROWAKRYL® M-35023W	23,0	Water, EDG	Backlit, frontlit, waterbased
ROWAKRYL® G-35150W	21,5	Water, EDG	Backlit, frontlit, waterbased

PVC-COATED TARPULINS

Truck covers, awnings, materials for halls and tents – all these products are described as PVC-coated tarpaulins. In most cases, they all have the same base material: a PVC-coated polyester fabric. Moreover, PVC- and TPO-coated roof membranes can be included in this product family. Since these materials are primarily used outdoors, the applied lacquer systems have to be strongly resistant to weathering and UV radiation. The lacquer system should minimize the migration of plasticizers, while also making the coated surface soil-resistant and easy to clean. In most cases, the lacquer systems for these applications have to be suitable for welding. Normally, high-quality acrylic lacquers from the ROWAKRYL® series are used for these applications.

PRINT MEDIA

Print media are essentially PVC-coated fabrics such as backlit, frontlit and side-curtains. They have nearly the same requirements as PVC-coated tarpaulins. In addition, the various large format printing systems must be able to print on the lacquered surfaces. The lacquer system has to ensure that the print comes out splendidly and the ink adheres well. The features of the printed material should remain unchanged even after the lacquered goods have been stored for a long while. The lacquer coating should ensure that the print profiles are as similar as possible, regardless what base material is used. For this application lacquers from the ROWAKRYL® series specifically optimized for printability are recommended.



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TEXTILE CONSTRUCTIONS

Here we speak about PVC-coated fabrics for the textile architecture segment. The required lacquer system must be extraordinarily resistant to weathering because it is used outdoors for long periods. Another important aspect of the PVC membrane is its long-term UV protection. The surfaces have to remain resistant to soiling and should be very easy to clean. In order to maintain the mechanical properties for a long period of time a very good plasticizer barrier is necessary. With the combination of ROWAFLON® UV protection primers and ROWAFLON® topcoats, ROWA Lack offers a tailor-made solution for this area of application.

FURNITURE AND DECORATION FOILS

The rigid or semi-rigid foils which are used in this field are made of PVC or TPO. Furniture foils can basically be divided into materials for 2D and 3D applications. Their basic requirements are comparable: They must be extremely resistant to chemicals as well as highly resistant to scratches and abrasion. The requested visual and tactile characteristics range from high-gloss to very dull finishes with hard, smooth and even soft-feeling surfaces. Coating systems for 3D applications must also be sufficiently elastic to withstand subsequent processing stages. For these applications ROWA Lack recommends the high-quality 2K systems of its ROWAKRYL® and ROWADEKOR® series.

SPECIALTIES

ROWA Lack offers solutions for niche markets, too. Taking into account customer requirements and specific material characteristics tailor made developments are in use. These lacquer systems show properties which cannot be fully covered by our lacquers for our other main target markets. Examples for this are lacquer systems for swimming pool liners as well as for book covers.

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWAFLON® G-75081W	19,5	Water, EDG	Halls, tents, waterbased
ROWAFLON® G-71711	11,0	MEK, PMA	Halls, tents, textile constructions
ROWAFLON® G-75277	16,0	MEK	Halls, tents
ROWAFLON® G-75372	16,0	MEK, PMA, Acetone, Cyclohexanone	Halls, tents
ROWAFLON® G-75368	16,3	MEK, PMA, Cyclohexanone	Textile constructions, UV protection primer, TiO ₂ absorber
ROWAFLON® G-75369	16,3	MEK, PMA, Cyclohexanone	Textile constructions, UV protection primer, ZnO absorber
ROWAFLON® G-75370	16,3	MEK, PMA, Cyclohexanone	Textile constructions, UV protection primer, ZnO absorber (transparent)
ROWAFLON® G-75281	16,2	MEK, PMA	Textile constructions, topcoat for UV protection primer
ROWAFLON® G-75428	16,8	MEK, PMA, Cyclohexanone	Textile constructions, topcoat for UV protection primer

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWADEKOR® G-114137	33,0	MEK, BAC	PVC furniture foils, 2D, high-gloss
ROWADEKOR® M-115270	28,0	MEK, PMA, EAC	PVC furniture foils, 3D, semi-matt, suitable for deep drawing
ROWADEKOR® M-114645	36,0	MEK, PMA	PVC furniture foils, 2D, matt, scratch-resistant
ROWADEKOR® M-114245	31,8	MEK, PMA, Acetone, BAC	PVC furniture foils, 2D, matt, scratch-resistant

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWAKRYL® G-34944W	30,0	Water, EDG	Book cover, glossy, waterbased
ROWAKRYL® M-34945W	29,0	Water, EDG	Book cover, matt, waterbased
ROWAKRYL® G-34870W	19,5	Water, IPA	PVC tablecloth, glossy, waterbased
ROWAKRYL® M-35030W	21,5	Water, IPA	PVC tablecloth, matt, waterbased
ROWAKRYL® G-35412	14,6	MEK, PMA, Acetone	PVC pool liner, foils for swimming pools, glossy
ROWAKRYL® M-35427	17,0	MEK, PMA, Acetone	PVC pool liner, foils for swimming pools, matt
ROWAFLON® G-75409	16,5	MEK, PMA, Cyclohexanone	High-grade PVC pool liner, foils for swimming pools, matt



ROWA LACK – APPLICATIONS

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWATHAL® M-24793	18,5	MEK, IPA, PMA,MP	Automotive foils and synthetic leather, matt, mar resistance
ROWAKRYL® M-34262W	28	Water, EDG	PVC trunk cover, matt, anti-blocking, waterbased
ROWAKRYL® M-34811W	20	Water, EDG	Automotive foils and synthetic leather, matt, primer, waterbased
ROWAKRYL® M-34818W		Water, EDG	Automotive foils and synthetic leather, matt, topcoat, waterbased
ROWATHAL® M-24901W	21	Water	Automotive foils and synthetic leather, matt, excellent mar resistance, anti squeak, waterbased
ROWAFロン® M-74828W	22	Water	Automotive foils and synthetic leather, matt, good mar resistance, very good resistance against heat yellowing, waterbased
ROWAFロン® M-74881W	21	Water	Automotive foils and synthetic leather, matt, good mar resistance, anti squeak, very good resistance against heat yellowing, waterbased

Productname	Solids [%]	Solvents included	Recommended applications / properties
ROWATHAL® M-24862W	22,0	Water	Synthetic leather, matt, excellent mar resistance
ROWAKRYL® M-34992	53,0	THF, BuOH, EAC, BAC	Synthetic leather, matt, anti-graffiti
ROWAKRYL® G-34994	43,0	THF, BuOH, EAC, BAC	Synthetic leather, high-gloss, anti-graffiti
ROWAKRYL® M-35200W	45,8	Water, BG, IPA	Synthetic leather, semi-matt, anti-graffiti, waterbased
ROWATHAL® M-25078	17,6	MEK, IPA, PMA	PVC synthetic leather, matt, soothand
ROWAKRYL® M-34592	17,0	MEK, PMA	PVC synthetic leather, matt, good mar resistance
ROWAKRYL® G-34593	14,5	MEK, PMA	PVC synthetic leather, glossy, good mar resistance
ROWAKRYL® M-35366	24,0	MEK, PMA	PVC synthetic leather, matt, good mar resistance
ROWANYL® 104930	28,0	MEK, PMA, BAC	PVC synthetic leather, wrinkle-finish, glossy, application on release paper (transfer coating)
ROWANYL® 105258	20,4	MEK, PMA, BAC	PVC synthetic leather, finish, glossy, application on release paper (transfer coating)
ROWANYL® 105004W	26,0	Water, EDG, IPA	PVC synthetic leather, glossy, application on release paper (transfer coating), waterbased

AUTOMOTIVE

This area of applications includes PVC, ABS and TPO foils for vehicle dashboards and door-panels, PVC and PU-coated synthetic leathers for seat backs, gearshift covers and trunk covers. The requirements in this area vary greatly. They range from strong abrasion resistance, good chemical resistance and flexibility to good thermoforming properties. The surfaces usually have to be matt finished and mar resistant and should have special haptic characteristics (soft-touch). In the automotive sector, most lacquer systems used are aqueous with low solvent content or solvent-free. The high-quality waterborne 2K systems in the ROWATHAL® and ROWAFロン® series are an excellent choice for this area of application.

SYNTHETIC LEATHER

The focus of this area is on fashion applications such as synthetic leather for bags, apparel and shoes. Here the visual and tactile characteristics are playing an important role. Synthetic leather upholstery for furniture, for public transportation and in the medical field constitutes additional areas of application. The users expect a strong abrasion resistance and a good chemical resistance (anti-graffiti). ROWA Lack offers lacquers for transfer coating and for direct coating processes. The products in the ROWANYL® and ROWAKRYL® series are especially recommended for these applications.



LOCATIONS

ROWA LACK

Germany

ROWA Lack GmbH
Siemensstraße 1-5
25421 Pinneberg
Germany

Phone: +49 4101 706 05
e-mail: info@rowa-lack.de

Production site
Winsener Landstr. 189
21220 Seevetal
Germany

Phone: +49 4105 6904 0

International Locations

ROWA France S.a.r.L.
7, rue Albert Einstein
77420 Champs sur Marne
France

Phone: +33 1 646 81 616
e-mail: info@rowa-france.com

ROWA Korea Co., Ltd.
511-16, Joogyo-Ri, Yesan Yeop
Yesan-Gun, Chungnam-Do
Korea

Phone: +82 41 335 4203
e-mail: info@rowa-korea.com

Ningbo ROWA Coatings Technology Co., Ltd.
Rm. 1218, Block A2, R&D Park
Lane 587, Juxian Rd,
Hi-Techn Zone, Ningbo City
Zhejiang Province, P.R. China
Phone: +86 574 872 292 82
e-mail: info@rowa-china.com

www.rowa-lack.de
