ROWA KOREA
SPECIAL LACQUER SYSTEMS AND TOP COATS

ROWA KOREA

ROWA KOREA – THE COMPANY

ROWA Korea Co., Ltd. is a local subsidiary of ROWA Group in Germany. ROWA Korea was established in 1995 to produce and supply high-quality lacquers and coatings for most coated fabrics and plastic films like truck covers, roofing membranes and synthetic leather for the Asian market.

ROWA Korea obtains all important raw materials pre-formulated from ROWA LACK in Germany. From domestic suppliers only solvents and some standard additives are purchased. This guaranties the same quality level as for lacquers produced in Germany and enables us to ensure that our customers are supplied with high-quality products at short notice.

ROWA Group's strength is its long-standing experience in the chemical industry, as well as its skilled technology to develop tailor-made solutions for our customers at short term.

All of our products are in accordance with the relevant European regulations including REACH. For all new developments we try to use the most environmentally friendly raw materials. We continuously improve our products and optimize our production processes to supply products at best quality with lowest possible environmental impact.

ROWA GROUP Germany

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. Most of the products are available as solvent-based 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 solvent based and aqueous

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 and UV-curable 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

PVC-COATED TARPAULINS

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 and swimming pool lining can be included in this product family.

The lacquer system properties required:

- Strongly resistant to weathering and UV radiation.
- Minimizing the migration of plasticizers
- 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. 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.

The lacquer system properties required:

- Various large format printing systems must be able to print on the lacquered surfaces.
- Ensuring 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.

Product Names	Solids [%]	Solvent	Applications / Properties
ROWAKRYL® G-35196/ 35041H	11.7/ 12.1	MEK, PM	truck covers, halls and tents
TIM-94681®	14.0	MEK, PMA, TOL	truck covers, awnings, effect lacquering, silver
ROWAFLON G-74717®	16.0	MEK, DMAC	halls and tents, low soiling
ROWAKRYL® G-34111	18.0	MEK, PMA Acetone	truck covers, halls and tents
ROWAKRYL® G-34643	13.4	MEK, THF, PMA, IPA	truck covers, halls and tents
ROWAKRYL® G-35089	13.6	MEK, PMA, Acetone	truck covers, halls and tents, awnings
ROWAKRYL® G-35326W	21.5	Water, EDG, IPA	truck covers, halls and tents awnings (watery)
ROWAFLON® G-75372	16.0	MEK, PMA, Acetone, Anone	halls and tents, low soiling tendency, easy to clean
ROWAKRYL® G-35039	14.6	MEK, PMA, Acetone	halls and tents, swimming pool, pool liner
ROWAKRYL® G-34316W	27.0	Water, EDG,	PVC roofing membrane (aqueous)
ROWALID® TIM-95121	14.0	MEK, PMA Acetone	truck covers, awnings, effect paint, silver, weather-resistant

Product Names	Solids [%]	Solvent	Applications / Properties
ROWAKRYL® G-35209/ 35989H	12.6/ 13.1	MEK, PM	backlit, frontlit, side-curtain
ROWAKRYL® G-35167	15.6	MEK, PMA, Acetone	backlit, frontlit, side-curtain
ROWAKRYL® M-35023W	23.0	Water, EDG	backlit, frontlit, semi-gloss (aqueous)

(* All of the above products are available from ROWA Korea Co., Ltd. and ROWA Lack GmbH.)

Product Names	Solids [%]	Solvent	Applications / Properties
ROWAFLON® G-75192	12.5	MEK, PM	halls and tents, textile constructions, topcoat for UV protection primer
ROWAFLON® G-75161	14.8	MEK, PM	textile constructions, UV protection primer, TiO2 nano absorber
ROWAFLON® G-75081W	19.5	Water, EDG	halls and tents (aqueous)
ROWAFLON® G-75372	16	MEK, PMA, Acetone, Anone	halls and tents, low soiling tendency, easy to clean
ROWAFLON® G-71711	11.0	MEK, PMA	halls and tents, textile contruction, top varnish for UV protection primer
ROWAFLON® G-75281	16.2	MEK, PMA,	textile construction, top coat for UV protection primer
ROWAFLON® 75368	16.3	MEK, PMA, Anone	textile construction, UV protection primer, TiO2 nano absorber
ROWAFLON® G-75369	16.3	MEK, PMA, Anone	textile construction, UV protection primer, ZnO nano absorber
ROWAFLON® G-75370	16.3	MEK, PMA, Anone	textile construction, UV protection primer, ZnO nano absorber, very transparent

Product Names	Solids [%]	Solvent	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	36.0	MEK, PMA, Acetone, BAC	PVC furniture foils, 2D matt, scratch-resistant

Product Names	Solids [%]	Solvent	Applications / Properties
ROWAKRYL® G-34944W	30.0	Water, EDG	halls and tents (aqueous)
ROWAKRYL® M-34945W	29.0	Water, EDG	halls and tents
ROWAKRYL® M-35070	17.0	MEK, PMA Acetone	halls and tents
ROWAFLON® G-74924	16.5	MEK, DMF	halls and tents, textile construction, top varnish for UV protection primer
ROWAKRYL® G-34870W	19.5	Water, IPA, DMSO	halls and tents, textile construction, top varnish for UV protection primer
ROWAKRYL® M-35030W	21.5	Water, IPA, DMSO	textile construction, top coat for UV protection primer
ROWAKRYL® M-35200W	45.8	Water, BG, IPA	textile construction, top coat for UV protection primer

(* All of the above products are available from ROWA Korea Co., Ltd. and ROWA Lack GmbH.)

TEXTILE CONSTRUCTIONS

Here we speak about PVC-coated fabrics for the textile architecture segment.

The lacquer system properties required:

- Extraordinarily resistant to weathering
- Long-term UV protection
- Resistant to soiling
- Easy to clean
- Very good plasticizer barrier

With the combination of ROWAFLON® UV protection primers and ROWAFLON® topcoats, we offer 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.

The lacquer system properties required:

- Extremely resistant to chemicals
- Highly resistant to scratches and abrasion.
- 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, the high-quality 2K systems of its ROWAKRYL® and ROWADEKOR® series are recommended.

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.

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 lacquer system properties required:

- 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 ROWAFLON® 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 lacquer system properties required:

- Strong abrasion resistance
- 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.

Product Names	Solids [%]	Solvent	Applications / Properties
ROWATHAL® M-24793	18.5	MEK, IPA, PMA, MP	Automotive foils and synthetic leather / matt, excellent mar resistance
ROWAKRYL® M-34262W	28.0	Water, EDG	PVC trunk cover / matt, anti-blocking (water based)
ROWAKRYL® M-34811W	20.0	Water, EDG	Automotive foils and synthetic leather / matt, primer (water-based)
ROWATHAL® M-24901W	21.0	Water	Automotive foils and synthetic leather / matt, anti-squeak, good mar resistance (water-based)
ROWAFLON® M-74828W	22.0	Water	Automotive foils and synthetic leather / matt, good mar resistance, very good resistance against heat yellowing (water-based)
ROWAFLON® M-74881W	21.0	Water	Automotive foils and synthetic leather / matt, anti-squeak, good mar resistance, very good resistance against heat yellowing (water-based)

Product Names	Solids [%]	Solvent	Recommended / Applications / Properties
ROWATHAL® M-24440	20.5	DMF, MEK	Synthetic leather / semi-gloss, pleasant hand
ROWATHAL® M-24441	19.5	DMF, MEK	Synthetic leather / semi-gloss, soft-feeling
ROWATHAL® M-24862W	22.3	Water	Synthetic leather / matt, excellent mar resistance (water-based)
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-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
ROWANYL® 101918	27.0	MEK, DMF, TOL	PVC synthetic leather / glossy, application on release paper, transfer coating
ROWANYL® 104930	28.0	MEK, DMF, BAC	PVC synthetic leather / glossy, application on release paper, transfer coating
ROWANYL® 105004W	26.0	Water, EDG, IPA	PVC synthetic leather / glossy, application on release paper, transfer coating (water-based)

(* All of the above products are available from ROWA Korea Co., Ltd. and ROWA Lack GmbH.)

ROMIRA ENGINEERING PLASTICS

Technical polymers and blends, colored and functionally adapted as per customer request

ROTEC® ABS, AES, ASA, M-ABS, PA, PBT, PC, PMMA, SAN, SMMA
ROMILOY® Blends based on PA, PBT, PC, PET and styrene copolymers
LURANYL® - PPE-blends (PPE+PS -I, PPE+PA)
ROMITRON® - PPS-blends

ROWA MASTERBATCH

Polymer specific masterbatches in granules
ROWALID® - CC Color Masterbatches
ROWALID® - AD Additive Masterbatches
ROWALID® - MF Multifunctional Masterbatches

Special compounds
ROWACOM
Compounds with a high content of colorants, additives and fillers

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ROWASOL

Liquid colors for coloring plastics

Additive dispersions

ROWAMETRIC Dosing Systems for liquid colors

ROWASOL COLOR CUBE Reusable container

Contract manufacturing

ROWALACK

ROWAKRYL® / ROWAFLON® / ROWATHAL® / ROWANYL®/ ROWASIL / ROWADEKOR® / ROWASET / ROWALID® TI / ROWATHAN®
Special lacquer systems and top coats for all kinds of coated fabrics and plastic films, based on acrylic, polyurethane and fluoro polymers, solvent based as well as waterborne

ROWABASE Contract manufacturing

ROWALID® Pigment preparations
Highly concentrated PVC and PMMA single pigment preparations, micro powder

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Tramaco

TRACEL® / UNICELL® Chemical foaming, nucleating agents and microspheres
» basic chemical foaming agents » exothermic and endothermic chemical foaming agents

TRAPYLEN® / TRAPUR® Adhesion promoters for coating, printing and bonding of plastics
» solvent based » water based

TRACOMB / TRAPOR / TRASTAB / TRASTATIC
Additive batches

LOCATION

ROWA KOREA

ROWA Korea

ROWA Korea Co., Ltd.

75-17 Yesansaneopdanji-ro
Yesan-eup, Yesan-Gun,
Chungnam-Do, 32427, Korea

Phone +82 41 335 4203,
Fax +82 41 335 4204
Mobile +82 10 3608 2145
E-mail sh.han@rowa-korea.com
Website www.rowa-group.com

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