hubergroup chemicals

Designed in Germany – Made in India

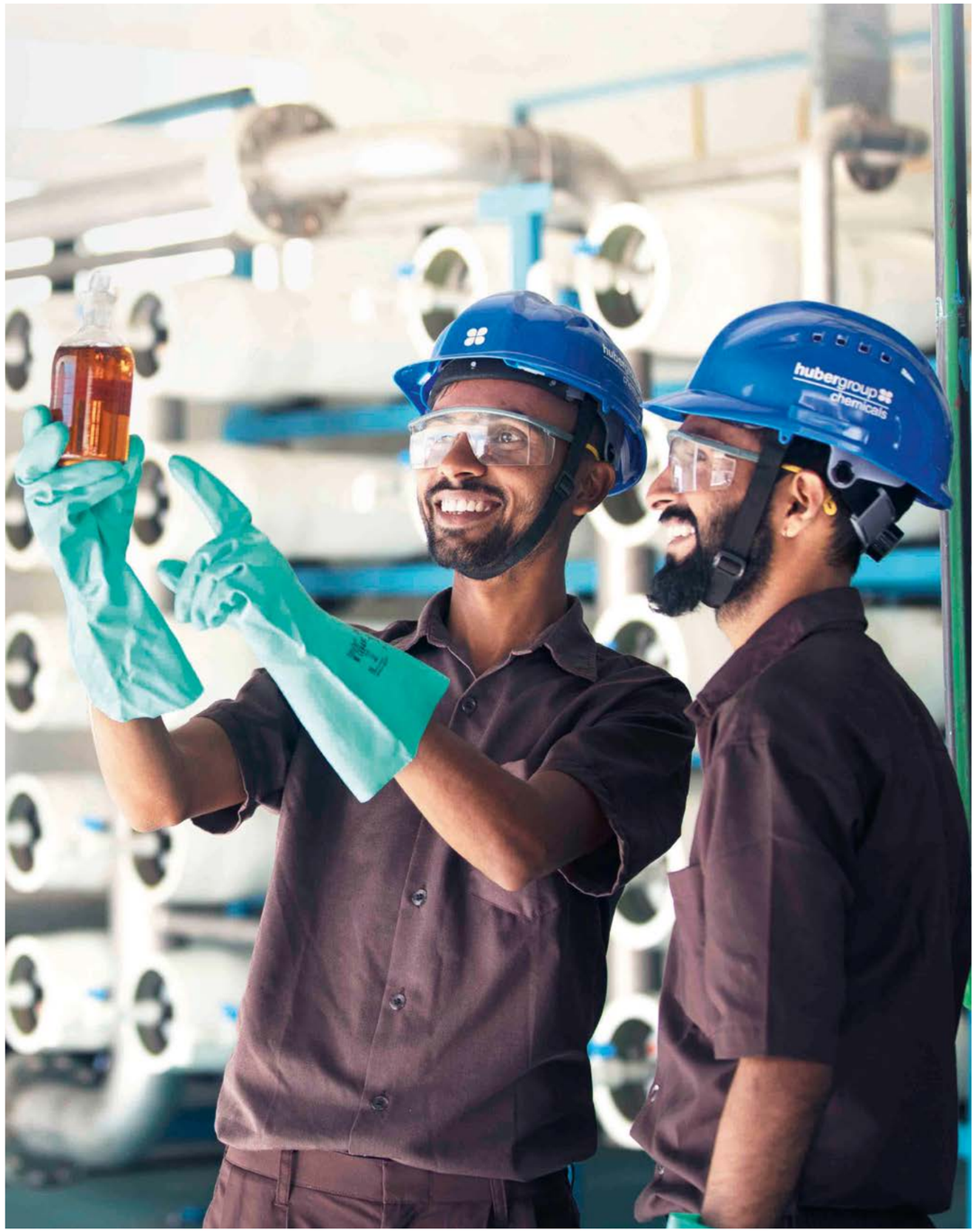
hubergroup Chemicals Product Portfolio

hubergroup Chemicals manufactures specialty chemicals such as Resins, Energy Curable Oligomers & Monomers, Lamination Adhesives, Pigments and Concentrates thereof. Launched in 2020, the company is a division of the international chemical and ink specialist hubergroup, which is based in Germany and has a 260-year history. hubergroup Chemicals specialises in the production of raw materials for use in industrial coatings, printing inks and adhesives for flexible food packaging. The company also develops, scales and manufactures customised solutions for the chemical industry.

Designed in Germany – Made in India

As one of the largest manufacturers in the chemical sector, it is our motivation to prove ourselves anew every day. In addition to our high-quality standard products, we prioritise three core competencies that we work on daily. Leveraging our diverse chemical expertise, we offer customised analytical support, regulatory knowledge, and individual chemical consulting services. With our team of international experts, we help our clients to make chemical processes more efficient.

Taner Bicer
Chief Commercial Officer Chemicals



We are nearby and connected

Americas
Sales
Technical Marketing
Application Technology
Product Safety & Regulatory Affairs

Europe
hubergroup Corporate Headquarters
Product Lifecycle Management
Product Safety & Regulatory Affairs
Central Analytical Lab
Intellectual Property
Innovation Management
Application Technology
Business Development
Technical Marketing
Sales

Asia
Operations
Purchasing
Supply Chain
Application Technology
Technical Marketing
Analytical Lab
Product Safety & Regulatory Affairs
Sales

Accountable & Responsible

Responsible

We are a Chemicals Company with Manufacturing Sites in ...

Vapi,
India

90+ Reactors 5 – 30 m³

EOU Vapi

300 kt Production capacity p.a.

394.000 m² Factory area

Custom Manufacturing

1.850 Employees

State-of-the-art R&D Centre in planning

Daman,
India

30+ Reactors 1 – 10 m³

Daman

58 kt Production capacity p.a.

R&D centre

560 Employees

Business Segments
Inks & Industrial Coatings

Printing Ink Related

Printing Inks & Overprint Varnishes

UV-Oligomers
UV-Monomers
Ketonic Resins
Pigments and Concentrates
Rosin Based Resins
Polyamide Resins
PVB Resins
PU Resins

PU Adhesives for Packaging

Solvent-Free and
Solvent-Based
Two-Component System
for flexible packaging

R&D knowledge in Chemicals and
Printing Inks for a broad range of products from
Resins to Pigments and Concentrates

Specialty Applications (Beyond Printing Inks)

Custom/Toll Manufacturing

Indian Footprint
Indian Raw Material Sourcing
Project Management
Expertise in Product Safety &
Regulatory Affairs
Analytics

Industrial Coatings

UV-Oligomers
UV-Monomers
Functional Resins
Ketonic Resins

Discover our Services

hubergroup Chemicals is one of the largest manufacturers in the chemical sector, offering a broad product portfolio of specialty chemicals, including Pigments and Concentrates, Lamination Adhesives, UV-Monomers, UV-Oligomers and custom manufacturing. We are committed to innovation and excellence, offering a wide array of specialty chemicals tailored to meet the unique demands of our valued clients. To date, hubergroup Chemicals has developed into a major chemical supplier that sells its products to all over the world, in all business areas and to customers ranging from SMEs to large, world-renowned chemical companies.

Analytical Support

Rely on our dedicated analytical support to ensure the quality and compliance of your formulations. With modern Lab Facilities in India and Munich our expert guidance will help you maintain the highest standards in your products.

Customised Solutions and Consulting Expertise

Our commitment to tailored solutions extends beyond custom manufacturing. We specialise in creating customised solutions because we recognise that every customer faces unique challenges. Our team of international experts is here to collaborate with you, making your chemical processes more efficient and effective.

Regulatory Expertise

Navigate complex compliance requirements with confidence. All materials imported to EU are REACH registered and various other inventories are covered as well. Our regulatory expertise from our specialists provides you with the knowledge and assurance you need to meet industry regulations and standards.

At hubergroup Chemicals, we are committed to providing high-quality specialty chemicals and comprehensive support to meet your changing needs. Explore our product portfolio, and let us be your partner in achieving excellence in your industry.

Committed to Sustainability

Advancement

of water stewardship by running own water treatment plant on clever water cycles

Water recycling

minimum 96% by means of ultra filtration reverse osmosis and water-flea-treatment

Reduction

of carbon footprint by Avoidance- & Green-Energy-Strategy: solar energy is in use in our production plants and offices

Highest Quality Standards

ISO certified in all our facilities

ISO 9001:2015	Quality management
ISO 45001:2018	Occupational health & safety
ISO 14001:2015	Environmental management
ISO 50001:2018	Energy management

Manufacturers for food packaging materials produced according to GMP standards

A member of the “Responsible Care®” initiative

Discover our Product Portfolio

UV-Oligomers

We are experts at creating the solution to your requirement. Rely on our high-quality, sustainable UV-Oligomers for increased reactivity and resistance.

Rosin Based Resins

As India‘s largest manufacturer for Rosin Based Resins we know what we are talking about. Discover our solutions to your Solvent-Based or Oil-Based Ink formulations!

Pigments and Concentrates

Explore our wide range of high-quality Pigments and Concentrates, suitable for various industries such as printing, packaging, and coatings. Our colour solutions offer a diverse spectrum, providing plenty of creative opportunities for your projects.

Lamination Adhesives

Our Lamination Adhesives are engineered for durability and precision and guarantee a good processability at a wide range of application speeds. They are well suited for various flexible packaging applications from snacks to detergents. Count on us for a steadfast and enduring bond.

Ketonic Resins

Remarkable clarity and perfect solubility, how else could we best describe our Ketonic Resins to you?

UV-Monomers

Elevate formulation performance with our exceptional range of Monomers. We provide the foundational elements for a multitude of applications, from adhesives to coatings, enhancing your products with improved properties and functionality.

Precursors

Our long history in polyurethane chemistry is based on the synthesis of our own intermediates. You can benefit from our in-depth expertise, be it in polyester polyols or ketone resins as precursors for a wide range of industrial applications such as coatings, adhesives or reactive hot melts.

UV-Monomers

Product	Product Description	Appearance	Colour	Acid Value	Moisture	Solvent	Viscosity 25 °C [1]
			APHA	mg KOH/g	%	%	mPa*s
UHVM-22701	TMPTA	clear liquid	≤ 50	≤ 4	≤ 0.3	≤ 0.1	80 - 135
UHVM-22702	TPGDA	clear liquid	≤ 50	≤ 0.5	≤ 0.3	≤ 0.1	30 - 40
UHVM-22704	DPGDA	clear liquid	≤ 50	≤ 0.2	≤ 0.3	≤ 0.1	20 - 30
UHVM-22707	PETIA	clear liquid	≤ 70	≤ 10	≤ 0.3	≤ 0.1	700 - 3,000
UHVM-22710	GPTA BIO BASED	clear liquid	≤ 50	≤ 2	≤ 0.3	≤ 0.1	110 - 150
UHVM-22709	EOTMPTA	clear liquid	≤ 30	≤ 0.5	≤ 0.3	≤ 0.1	70 - 110
UHVM-24703	HDDA	clear liquid	≤ 30	≤ 0.5	≤ 0.3	≤ 0.1	5 - 30

1) Brookfield

UV-Oligomers
Polyester Acrylates

1) At 20 °C; Physica; D = 5/s
** Not fully commercialised

Product	Product Description	Viscosity [1]	Acid Value	Hydroxyl Value	Average Functionality	Double Bond Density	Bio Renewable	Colour	Key properties	Application
		Pa·s	mg KOH/g	mg KOH/g		mol/kg	%	Gardner		
UHVO-221019	Polyester Acrylate BPA-free	100 - 130	≤ 19	15 - 35	6	6 - 7	10	≤ 12	- medium viscosity - very good pigment wetting - high reactivity - suitable for LED and EB - suitable for indirect food contact	- inks OOO - coatings O
UHVO-221016	Polyester Acrylate BPA-free	180 - 235	≤ 15	55 - 75	4	2.8 - 3.2	38	≤ 12	- high viscosity - very good pigment wetting properties - high reactivity - suitable for LED and EB - suitable for indirect food contact	- inks OOO - coatings O
UHVO-019842	Polyester Acrylate	100 - 130	≤ 4	55 - 75	6	5.4 - 6.0	14	≤ 12	- medium viscosity - high reactivity - suitable for LED and EB - recommended for commercial printing	- inks OOO - coatings O
UHVO-221020**	Polyester Acrylate BPA-free	4 - 6	≤ 6	60 - 70	6	5.4 - 6.4	12	5 - 8	- low viscosity - suitable for LED and EB - suitable for indirect food contact - good coffee stain resistance - low yellowing	- inks OOO - coatings OO
UHVO-221022	Polyester Acrylate BPA-free	13 - 17	≤ 20	60 - 70	6	7.5 - 9.0	28	≤ 13	- low viscosity - very good pigment wetting - excellent ink water balance - suitable for LED and EB - suitable for indirect food contact - excellent coffee stain resistance - low yellowing	- inks OOO - coatings OO
UHVO-221023	Polyester Acrylate	35 - 55	≤ 20	20 - 60	2 - 3	3.5 - 5.5	–	≤ 4	- all around coating resin - balanced flexibility & hardness - suitable for matte top coats - suitable for overprint varnishes	- inks O - coatings OOO
UHVO-221024	Polyester Acrylate	15 - 20	≤ 5	55 - 75	2 - 3	3.5 - 5.5	–	≤ 4	- all around coating resin - balanced flexibility & hardness - high chemical resistance - suitable for matte top coats	- inks O - coatings OOO
UHVO-221025	Polyester Acrylate BPA-free	1 - 1.4	≤ 20	65 - 85	4	Approx. 3.6	15	≤ 2	- very low viscosity - suitable for indirect food contact	- inks O - coatings OOO
UHVO-17806	Polyester Acrylate	5 - 8	≤ 3	80 - 90	6	5.6 - 6.6	9	4 - 5	- low viscosity - good stain resistance - excellent pigment wetting & flow - low yellowing - suitable for indirect food contact - suitable for LED and EB	- inks OOO - coatings OO
UHVO-17826	Polyester Acrylate	8 - 12	≤ 3	80 - 90	6	6.8 - 7.6	14	≤ 12	- low viscosity - outstanding ink water balance - excellent pigment wetting & flow - good stain resistance, e.g coffee - low yellowing - suitable for indirect food contact - suitable for LED and EB	- inks OOO - coatings OO

UV-Oligomers
Chlorinated Polyester

Product	Product Description	Viscosity [1]	Acid Value	Colour	Appearance	Key properties	Application
		Pa·s	mg KOH/g	Gardner			
UHVO-15113	Chlorinated Polyester in 40% EOTMPTA	180 - 230	8 - 12	≤ 3	clear liquid	- excellent adhesion to plastics and metal - suitable for indirect food contact	- inks OOO - coatings O - UV-curable Adhesives OOO
UHVO-241030	Chlorinated Polyester in 40% EOTMPTA (TMPTA reduced)	180 - 230	8 - 12	≤ 3	clear liquid	- excellent adhesion to plastics and metal - suitable for indirect food contact - TMPTA < 0.1%	- inks OOO - coatings O - UV-curable Adhesives OOO
UHVO-20114	Chlorinated Polyester in 40% TMPTA	500 - 600	9 - 13	≤ 3	clear liquid	- excellent adhesion to plastics and metal	- inks OOO - coatings O - UV-curable Adhesives OOO
UHVO-20115	Chlorinated Polyester in 40% GPTA	490 - 600	8 - 12	≤ 3	clear liquid	- excellent adhesion to plastics and metal - suitable for indirect food contact	- inks OOO - coatings O - UV-curable Adhesives OOO
UHVO-221017	Chlorinated Polyester in 40% EOTMPTA	55 - 75	15 - 25	≤ 3	clear liquid	- excellent adhesion to plastics and metal - suitable for indirect food contact	- inks OOO - coatings O - UV-curable Adhesives OOO
UHVO-221015	Chlorinated Polyester in 40% TMPTA	80 - 120	15 - 25	≤ 3	clear liquid	- excellent adhesion to plastics and metal	- inks OOO - coatings O - UV-curable Adhesives OOO
UHVO-221021	Chlorinated Polyester in 40% GPTA	95 - 115	15 - 25	≤ 3	clear liquid	- excellent adhesion to plastics and metal - suitable for indirect food contact	- inks OOO - coatings O - UV-curable Adhesives OOO

1) At 20 °C; Physica; D = 5/s

UV-Oligomers
Urethane Acrylate

Product	Product Description	Viscosity [2]	Acid Value	Hydroxyl Value	Average Functionality	Double Bond Density	Colour	Key properties	Application
		Pa·s	mg KOH/g	mg KOH/g		mol / kg	mol / kg		
UHVO-221014 ** BPA FREE	Aromatic Urethane Acrylate	25 - 35	≤ 3	50 - 70	6	8 - 10	< 2	- tin-free - excellent hardness and resistance properties - high gloss - suitable for indirect food contact	- inks OOO - coatings O
UHVO-231029 ** BPA FREE	Aliphatic Urethane Acrylate	200 - 220	≤ 3	20 - 30	6	6 - 10	< 2	- low yellowing - high hardness and resistance properties - good reactivity	- inks O - coatings OOO

1) At 20 °C; Physica; D = 5/s
2) At 25 °C, Physica, D = 50/s
3) At 40 °C, Physica, D = 5/s
4) At 60 °C, Physica, D = 5/s
** Not fully commercialized

Epoxy Acrylate

Product	Product Description	Viscosity	Acid Value	Bio Renewable	Colour	Application
		Pa·s	mg KOH/g	%	Gardner	
UHVO-23920	Epoxy Acrylate 100%	85 - 105 [3]	≤ 2	–	≤ 2	- inks OOO - coatings OOO
UHVO-23922	Epoxy Acrylate 100% bio-based	100 - 120 [3]	≤ 0.5	Approx. 20 BIO BASED	≤ 2	- inks OOO - coatings OOO
UHVO-22912 BPA FREE	Epoxydised Soybean Oil Acrylate	15 - 30 [2]	≤ 10	Approx. 82 BIO BASED	≤ 2	- inks OOO - coatings OOO

Any Epoxy Acrylate dilution available on request.

Functional Resins
UV Reactive/Inert Rosin Resins

Product	Product Description	Bio Renewable	Viscosity [1]	Acid Value	Photoinitiator Content	Appearance	Softening Point	Key properties	Application
		%	Pa·s	mg KOH/g	%		°C		
UHVPI-22460 Patent Pending	UV reactive Rosin Resin	55	-	≤ 15	10	Amber Flakes	115 - 125	- excellent suitability for LED curing - recommended to replace monomeric photoinitiator - flexiblizes and improves adhesion to difficult substrates - suitable for direct-to-metal application	- inks O - coatings OOO
UHVPI-22463 Patent Pending	UV reactive Rosin Resin in 50% DPGDA	27	2 - 4	≤ 7	5	Amber Liquid	-	- excellent suitability for LED curing - recommended to replace monomeric photoinitiator - flexiblizes and improves adhesion to difficult substrates - suitable for direct-to-metal application	- inks O - coatings OOO
UHVR-22461 Patent Pending	UV inert Rosin Resin	59	-	≤ 5	-	Brown Flakes	95 - 105	- flexiblizes and improves adhesion to difficult substrates - suitable for direct-to-metal application - suitable for indirect food contact	- inks O - coatings OOO
UHVR-22464 Patent Pending	UV inert Rosin Resin in 50% EOTMPTA	29	55 - 65	≤ 2	-	Brown Liquid	-	- flexiblizes and improves adhesion to difficult substrates - suitable for direct-to-metal application - suitable for indirect food contact	- inks O - coatings OOO

1) 40 °C

These products are experimental. Regional availability might vary.

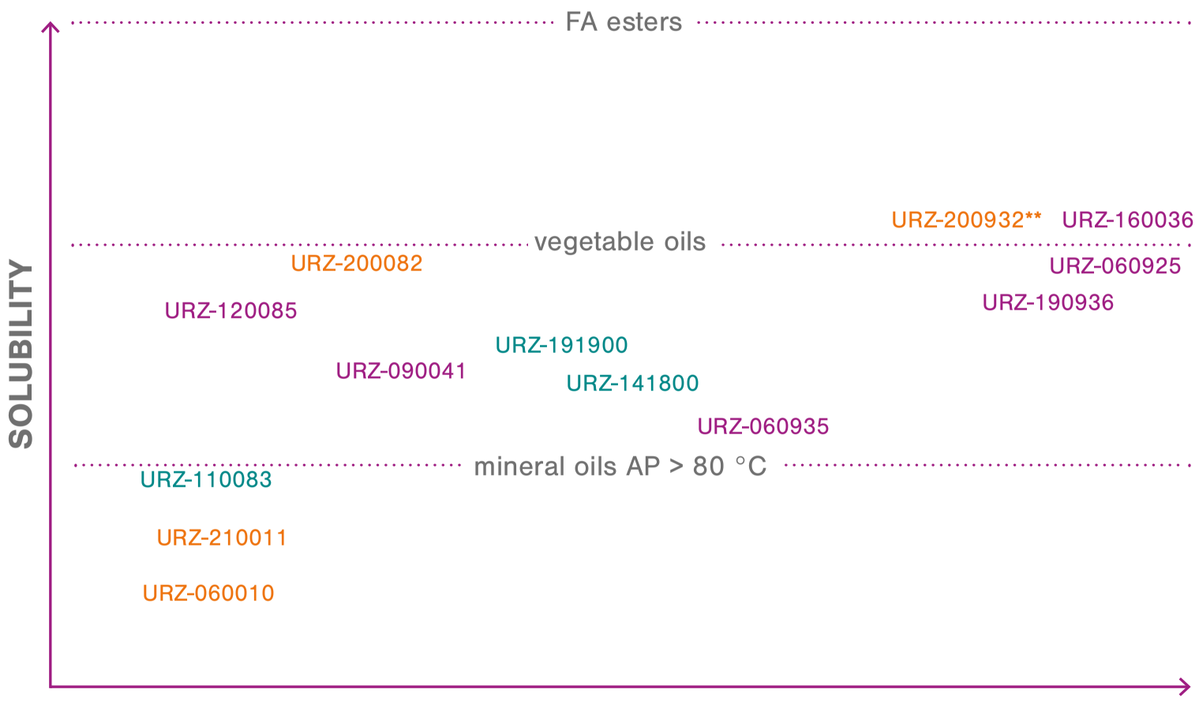
Resins
Modified Rosin for Offset Inks

Product	Product Description	Viscosity [1]	Acid Value	Colour	Softening Point [2]	Cloud point	Key properties	Suggested Application
		Pa·s	mg KOH/g	Gardner	°C	°C		
URZ-090041	Phenolic Modified Rosin Resin	10 - 22	≤ 25	8 -13	150 - 160	110 - 135 [3]	- high gloss - excellent ink water balance	Heatset, Sheetfed, Coldset
URZ-060935	Phenolic Modified Rosin Resin	40 - 70	≤ 25	8 -13	160 - 185	100 - 130 [3]	- high gloss - excellent ink water balance	Heatset, Sheetfed, Coldset
URZ-190936	Phenolic Modified Rosin Resin	40 - 70	≤ 25	8 -13	160 - 180	145 - 170 [3]	- low solubility - fast setting - improved press performance	Heatset, Sheetfed, Coldset
URZ-060925	Phenolic Modified Rosin Resin	64 - 104	≤ 25	8 -13	165 - 185	70 - 100 [4]	- high gloss - excellent ink water balance and ink set - high viscosity	Heatset, Sheetfed, Coldset
URZ-120085	Phenolic Modified Rosin Resin	5 - 8	≤ 25	8 -13	150 - 170	150 - 170 [3]	- excellent pigment wetting	Heatset, Sheetfed, Coldset
URZ-160036	Phenolic Modified Rosin Resin	350 - 650	18 - 25	8 -13	165 - 190	130 - 165 [4]	- excellent solubility in fatty esters - indirect food contact	Heatset, Sheetfed, Coldset
URZ-141800	Hybrid Rosin Resin	20 - 40	≤ 25	8 -13	165 - 190	130 - 160 [3]	- low tack - low misting - excellent ink water balance	Heatset, Sheetfed, Coldset
URZ-191900	Hybrid Rosin Resin	15 - 25	≤ 25	8 -13	165 - 190	60 - 75 [4]	- very good ink water balance	Heatset, Sheetfed, Coldset
URZ-110083	Hybrid Rosin Resin	1.5 - 3.5	≤ 25	8 -13	150 - 170	80 - 110 [3]	- good pigment wetting - low viscosity - improve film thickness - increase tack	Heatset, Sheetfed, Coldset
URZ-060010	Modified Rosin, Phenol & Formaldehyde free	15 - 35	≤ 25	8 -13	110 - 120	70 - 90 [3]	- excellent pigment wetting - high compatibility with alkyd resin - low viscosity - recommended for indirect food contact	Heatset, Sheetfed, Coldset
URZ-210011	Modified Rosin, Phenol & Formaldehyde free	35 - 60	≤ 25	8 -13	100 - 120	45 - 65 [3]	- low viscosity - excellent pigment wetting - recommended for indirect food contact	Heatset, Sheetfed, Coldset
URZ-200082	Modified Rosin, Phenol & Formaldehyde free	8 - 12	≤ 25	8 -13	140 - 150	80 - 120 [4]	- low viscosity - excellent pigment wetting - low viscosity - recommended for indirect food contact	Heatset, Sheetfed, Coldset
URZ-200932 **	Modified Rosin, Phenol & Formaldehyde free	20 - 30	≤ 25	8 - 13	140 - 150	120 - 140 [5]	- medium solubility - indirect food contact - very good ink - water balance	Heatset, Sheetfed, Coldset

1) Physica; D = 50/s ; 20 °C; 40% in Linear Alkyl Benzene
2) B&R Method
3) 10% in Test Oil 6/9 AF New
4) 10% in Test Oil 6/9
** Not fully commercialized

Conventional Drying Resins / **Modified Rosin for Offset Inks**

Phenolic mod. Hybrid Phenol free



** under development, material not fully commercialized

Product Portfolio
Resins

Resins
Modified Rosin for Liquid Inks

Product	Product Description	Viscosity [1]	Acid Value	Colour	Softening point [2]	Key properties	Suggested Application
		s	mg KOH/g	Gardner	°C		
UFRZ-1020 BIO BASED	Fumaric Modified Rosin Resin	17 - 22	190 - 210	0 - 8	136 - 150	- excellent adhesion - high gloss - improved solvent release - suitable for solvent-borne and water-borne systems	- inks + OPV OOO - coatings OO
UFRZ-1121 BIO BASED	Fumaric Modified Rosin Resin	15 - 18	280 - 300	0 - 12	140 - 150	- excellent adhesion - high gloss - improved solvent release - suitable for solvent-borne and water-borne systems	- inks + OPV OOO - coatings OO

1) At 30 °C; FCB4; 50% Solution in Ethanol
2) B&R Method

Resins
Polyurethane

Product	Product Description	Viscosity [1]	Solid Content	Volatiles	NCO Type	Key properties	Application
		mPa·s	%	%			
UMU-097080	Plasticizing Semi-Aliphatic	1,000 - 2,000	78 - 73	18 ethyl acetate 2 ethanol	TDI	- tin-free - suitable for indirect food contact - suitable for surface and lamination printing - recommended for flexo and gravure inks	- inks OOO - coatings
UMU-247175	Plasticizing Semi-Aliphatic	1,000 - 2,000	73 - 77	22 ethyl acetate 3 iso-propanol	TDI	- tin-free - suitable for indirect food contact - suitable for surface printing - recommended for flexo and gravure inks	- inks OOO - coatings
UMU-139045 Patent Granted	Film-Forming Aliphatic	3,500 - 4,500	43 - 47	17 propyl acetate 38 n-propanol	IPDI	- tin-free - suitable for indirect food contact - recommended for PU NC systems - suitable for pure PU white - recommended for flexo and gravure inks	- inks OOO - coatings
UMU-239355 Patent Granted	Film-Forming Aliphatic	20,000 - 30,000	53 - 57	12 propyl acetate 33 n-propanol	IPDI	- tin-free - suitable for indirect food contact - recommended for PU NC systems - suitable for pure PU white - recommended for flexo and gravure inks	- inks OOO - coatings O
UMU-185030 Patent Granted	Film-Forming Aliphatic	1,000 - 3,000	28 - 32	68 ethyl acetate 4 n-propanol	IPDI	- tin-free - suitable for indirect food contact - recommended for pure PU colours and white - recommended for flexo and gravure inks	- inks OOO - coatings O
UMU-201230	Film-Forming Aliphatic	1,000 - 3,000	28 - 32	70 ethyl acetate	IPDI	- tin-free - suitable for indirect food contact - recommended for PU vinyl systems - recommended for gravure inks - Polyester-based	- inks OOO - coatings O

1) at 25 °C; Brookfield

Resins
Polyamide

Product	Product Description	Viscosity [1]	Acid Value	Amine Value	Softening Point [4]	Bio Renewable	Apearance	Key properties	Application
		s	mg KOH/g	mg KOH/g	°C	%		mg KOH/g	
HPR-209	Cosolvent Soluble	60 - 75 [2]	≤ 5	≤ 5	105 - 115	90	pale yellow solid	- general application - anti-slip	- inks OOO - coatings
HPR-215	Cosolvent Soluble	120 - 160 [2]	≤ 5	≤ 5	110 - 120	90	pale yellow solid	- general application - anti-slip	- inks OOO - coatings
HPR-260	Cosolvent Soluble	48 - 58 [2]	≤ 5	≤ 5	100 - 107	89	pale yellow solid	- general application - anti-slip	- inks OOO - coatings
HPR-500	Cosolvent Soluble	17 - 23 [2]	≤ 10	≤ 2	95 - 100	88	pale yellow solid	- general application - untreated olefinic surfaces - corona treated surfaces	- inks OOO - coatings
HPR-304	Alcohol Soluble	17 - 23 [3]	≤ 6	≤ 6	110 - 120	77	pale yellow solid	- weathering resistant	- inks OOO - coatings
HPR-350	Alcohol Soluble	17 - 23 [3]	≤ 6	≤ 6	128 - 138	80	pale yellow solid	- release properties	- inks OOO - coatings
HPR-307	Alcohol Soluble	17 - 23 [3]	≤ 6	≤ 6	100 - 105	78	pale yellow solid	- general application - anti-slip - stretch and shrink application	- inks OOO - coatings

1) At 30 °C with FCB4
2) 40% Resin, 40% Toluene, 20% Butanol
3) 40% Resin, 60% Ethanol
4) B&R Method

Resins
Ketonic

Product	Product Description	Viscosity [1]	Acid Value	Hydroxyl Value	Softening Point [2]	Appearance	Key properties	Application
		s	mg KOH/g	mg KOH/g	°C			
HUK-0001E	Ketonic Resin	20 - 22	0 - 1	200 - 230	92 - 102	Star Bright Particles	- easy to dissolve - small clear particles - high purity - excellent pigment wetting	- inks OOO - ball point pen inks OOO - coatings OO - nail varnish OOO
HUK-0009	Ketonic Resin	20 -22	0 - 1	260 - 290	81 - 91	Pale Yellowish Lumps	- high OH reactivity - excellent pigment wetting	- inks OOO - ball point pen inks OOO - coatings OO - nail varnish OO
HUK-0010	Ketonic Resin	18 - 20	0 - 1	230 - 270	75 - 85	Pale Yellowish Lumps	- excellent pigment wetting	- inks OOO - ball point pen inks OOO - coatings OO - nail varnish OO
HUK-0011E	Ketonic Resin	27 - 31	0 - 1	200 - 230	110 - 120	Star Bright Particles	- excellent pigment wetting	- inks OOO - ball point pen inks OOO - coatings OO - nail varnish OO
HUK-0014	Ketonic Resin	28 - 30	0 - 1	230 - 260	108 - 118	Pale Yellowish Lumps	- very low residual monomer - excellent pigment wetting	- inks OOO - ball point pen inks OOO - coatings OO - nail varnish OO

1) FCB4; 30 °C; 50% Solution in Ethanol
2) capillary method

Resins
Polyvinyl Butyral (PVB)

Product	Product Description	Viscosity	Bulk Density [3]	Acid Value	Polyvinyl Alcohol Content	Polyvinyl Acetate Content	Polyvinyl Butyral Content	Key properties	Application
		s	g/cm³	mg KOH/g	%	%	%		
HVB-0001	High Viscosity, Themoplastic	180 - 250 [1]	0.280 - 0.312	0 - 1	14 - 17	2.2 - 2.5	80 - 90		
HVB-0004	High Viscosity, Themoplastic	55 - 60 [2]	0.222 - 0.238	0 - 1	17 - 19	1.9 - 2.3	75 - 85	- grades differ by molecular weight and degree of acetalization - solubility in various solvents - good compatibility with various resins and plasticizers - excellent film formation - free, reactive hydroxyl groups for crosslinking - excellent flexibility - heat sealability - good light resistance - suitable for indirect food contact	- inks OOO - inks for textile OOO - powder coatings OO - adhesives OO - temporary binder for ceramics OOO - coatings OOO
HVB-0005	Themoplastic	48 - 58 [1]	0.245 - 0.291	0 - 1	14 - 17	1.0 - 1.5	80 - 90		
HVB-0006	Themoplastic	75 - 85 [1]	0.284 - 0.312	0 - 1	11 - 14	1.6 - 1.7	80 - 90		

1) 20% in Ethanol at 30 °C; FCB4
2) 10% in Ethanol at 30 °C; FCB4
3) 25 °C

Additives
Siccatives

Product	Product Description	Viscosity [1]	Moisture [2]	Metal Content	Solvent	Key properties	Application
		s	%	%			
UMID-17504	Iron Neodecanoate Drier	24 - 45	0 - 0.4	4.9 - 5.1	2-ethyl hexyl laurate	- Effective cobalt-free drier for all air-drying systems	- inks OOO - coatings OO
UMID-12306	Manganese Tallate Drier	50 - 350	0 - 0.4	4.9 - 5.1	2-ethyl hexyl laurate	- Effective cobalt-free drier for all air-drying systems	- inks OOO - coatings OO

Adhesion Promoter

Product	Product Description	Viscosity [1]	Solid Content [3]	Titanium Content	Odour	Key properties	Application
		s	%	%			
UAP-11002 Patent Granted	Titanium Phosphate Complex	16 - 18	49 - 51	8.4 - 8.6	Alcoholic	- high compatibility with NC, PU, PA and other binders - no predilution required - excellent viscosity stability - crosslinker for -OH and -COOH functionalities	- inks OOO - coatings O

1) 30 °C, FCB4
2) Karl-Fischer
3) 120 °C for 1 hour

Additives
Fatty Acid Esters

Product	Product Description	Viscosity, FCB4	Refractive Index [1]	Moisture	Density [1]	Acid value	Colour, Gardner	Application
		s		%	g/cm³	mg KOH/g		
UEAF-0706	Isopropyl Laurate	12	1.425 - 1.427	< 0.1	0.845 - 0.855	< 1	< 1	- inks OOO - lubricants OO
UEAF-0905	Soya Fatty Acid Butyl Ester	13 - 15	1.452 - 1.454	< 0.2	0.860 - 0.880	< 5	10 - 14	- inks OOO - lubricants OO
UEAF-1107	2-Ethyl Hexyl Laurate	13	1.435 - 1.445	< 0.2	0.850 - 0.865	< 1	< 1	- inks OOO - lubricants OO
UEAF-1108	Pentaerythritol Caprylic/ Caprate Ester	24	1.450 - 1.455	< 0.2	0.948 - 0.956	< 1	< 1	- inks OOO - lubricants OO
UEAF-1109	Trimethylol Propane Caprylic/Caprate Ester	19	1.445 - 1.455	< 0.2	0.930 - 0.940	< 1	< 1	- inks OOO - lubricants OO

1) 30 °C

1) FCB4 at 30 °C, 60% in Xylene
2) Ball & Ring
* Limited regional availability
** Not fully commercialised

Additives
Dispersant

Product	Product Description	Appearance	Moisture	Viscosity [1]	Bulk density	Key properties	Application
			%	s	g/cm³		
UADP-21001*	Dispersant	light brown liquid	-	35 - 45	-	- high pigment loading - high colour strength - improves grinding efficiency	- inks OOO
UADP-23002*	Pigment Synergist	yellow powder	< 4	-	0.55 - 0.65	- high pigment loading - high colour strength - improved pigment stabilisation	- inks OOO

Tackifier

Product	Product Description	Softening Point [2]	Ash content	Colour	Appearance	Acid value	Iodine value	Key properties	Application
		°C	%	Gardner		mg KOH/g	g I2/100g		
UTRZ-2300**	DCPD Resin	80 - 120	< 0.1	10 - 14	brown lumps	< 10	110 - 180	- high reactivity - softening and reinforcing agent - excellent compatibility	- rubber OOO - tyres OOO

Concentrates
UV Flexo Spot Colours

Product	Colour Index	Viscosity [1]	Fineness of grind	Pigmentation	Colour Strength	Delta E 2000	FCM suitability
		Pa·s	NPIRI	%	%		
UFX-Y14	Pigment Yellow 14	0.5 - 2.5	< 4	Approx. 32	95 – 105	0.00 - 1.50	No
UFX-O13	Pigment Orange 13	15 - 25	< 4	Approx. 32	95 – 105	0.00 - 1.50	No
UFX-R571	Pigment Red 57:1	2.5 - 7.5	< 4	Approx. 30	95 – 105	0.00 - 1.50	No
UFX-R531	Pigment Red 53:1	2.5 - 7.5	< 4	Approx. 30	95 – 105	0.00 - 1.50	No
UFX-R254	Pigment Red 254	2.5 - 7.5	< 4	Approx. 32	95 – 105	0.00 - 1.50	No
UFX-V23	Pigment Violet 23	10 - 20	< 4	Approx. 24	95 – 105	0.00 - 1.50	No
UFX-B154	Pigment Blue 15:4	10 - 20	< 4	Approx. 30	95 – 105	0.00 - 1.50	No
UFX-G7	Pigment Green 7	0.5 - 2.5	< 4	Approx. 36	95 – 105	0.00 - 1.50	No
UFX-Bk7	Pigment Black 7	0.5 - 2.5	< 4	Approx. 34	95 – 105	0.00 - 1.50	No

1) At 20 °C; Physica; D = 50/s

Concentrates
UV Sheetfed Process Colours

Product	Product Description	Viscosity	Tack [3]	Pigmentation	Colour Strength	Delta E (CIELAB)	FCM suitability
		Pa·s		%	%		
UOBX-Y174	Pigment Yellow 174 (for Paper & Board)	130 - 180 [1]	21.0 - 25.0	Approx. 31	95 - 105	0.00 - 1.50	No
UOBX-R571	Pigment Red 57:1 (for Paper & Board)	170 - 230 [1]	25.0 - 29.0	Approx. 31	95 - 105	0.00 - 1.50	No
UOBX-B153	Pigment Blue 15:3 (for Paper & Board)	125 - 185 [1]	24.5 - 28.5	Approx. 31	95 – 105	0.00 - 1.50	No
UOPX-Y174	Pigment Yellow 174 (for Plastic)	190 - 260 [1]	18.0 - 22.0	Approx. 19	95 – 105	0.00 - 1.50	No
UOPX-R571	Pigment Red 57:1 (for Plastic)	400 - 800 [2]	23 - 27	Approx. 24	95 – 105	0.00 - 1.50	No
UOPX-B153	Pigment Blue 15:3 (for Plastic)	125 - 185 [1]	18 - 22	Approx. 33	95 – 105	0.00 - 1.50	No

1) At 20 °C; Physica; D = 5/s; 70% Concentrate, 30% Letdown
2) At 20 °C; Physica; D = 5/s; Measured as Such
3) At 32 °C And 800 RPM; Thwing Albert Inkometer; 70% Concentrate, 30% Letdown;

Concentrates
UV Sheetfed Spot Colours

Product	Product Description	Viscosity [1]	Tack [2]	Pigmentation	Colour Strength	Delta E (CIELAB)	FCM suitability
		Pa·s		%	%		
UOBF-Y174	Pigment Yellow 174 (for Paper & Board)	120 - 220	12.5 - 14.5	Approx. 25	95 - 105	0.00 - 1.50	Yes
UOBF-R571	Pigment Red 57:1 (for Paper & Board)	70 - 140	12.0 - 14.0	Approx. 24	95 - 105	0.00 - 1.50	Yes
UOBF-B153	Pigment Blue 15:3 (for Paper & Board)	80 - 150	13.0 - 15.0	Approx. 27	95 - 105	0.00 - 1.50	Yes
UOPF-Y174	Pigment Yellow 174 (for Plastic)	120 - 180	12.0 - 15.0	Approx. 21	95 - 105	0.00 - 1.50	Yes
UOPF-R571	Pigment Red 57:1 (for Plastic)	60 - 100	13.0 - 15.0	Approx. 21	95 - 105	0.00 - 1.50	Yes
UOPF-B153	Pigment Blue 15:3 (for Plastic)	60 - 110	12.5 - 14.5	Approx. 25	95 - 105	0.00 - 1.50	Yes
Other Shades available for Printing on Plastic or Paper and Board	Details on Request						Yes

1) At 20 °C, Physica; D = 5/s; 90% Concentrate, 10% PI-Solution
2) At 32 °C And 800 RPM; Thwing Albert Inkometer; 90% Concentrate, 10% PI-Solution

Concentrates
Heatset Process Colours

Product	Colour Index	Viscosity [1]	Tack [2]	Pigmentation
		Pa·s		%
HSX-Y12	Pigment Yellow 12	800 - 1,100	10.0 - 12.0	Approx. 22
HSX-R571	Pigment Red 57:1	500 - 800	11.0 - 13.0	Approx. 27
HSX-B153	Pigment Blue 15:3	800 - 1,200	12.0 - 14.0	Approx. 30

1) At 20 °C; Physica; D = 5/s
2) At 32 °C and 800 RPM; Thwing Albert Inkometer

Colour Strength	Delta E (CIELAB)	FCM suitability
%		
95 - 105	0.00 - 1.50	No
95 - 105	0.00 - 1.50	No
95 - 105	0.00 - 1.50	No

Coldset Process Colours

Product	Colour Index	Viscosity [1]	Tack [2]	Pigmentation
		Pa·s		%
CSX-Y12	Pigment Yellow 12	750 - 1,000	10.0 - 12.0	Approx. 22
CSX-R571	Pigment Red 57:1	500 - 800	10.0 - 12.0	Approx. 28
CSX-B153	Pigment Blue 15:3	600 - 1,000	10.0 - 12.0	Approx. 30

Colour Strength	Delta E (CIELAB)	FCM suitability
%		
95 - 105	0.00 - 1.50	No
95 - 105	0.00 - 1.50	No
95 - 105	0.00 - 1.50	No

Concentrates
Sheetfed Process Colours

Product	Colour Index	Viscosity [1]	Tack [2]	Pigmentation	Colour Strength	Delta E (CIELAB)	FCM suitability
		Pa·s		%	%		
SFE-Y174	Pigment Yellow 174	500 – 850	13.5 – 15.5	Approx. 21	95 - 105	0.00 - 1.50	No
SFE-R571	Pigment Red 57:1	750 – 1,000	13.5 – 15.5	Approx. 28	95 - 105	0.00 - 1.50	No
SFE-B153	Pigment Blue 15:3	950 – 1,300	13.5 – 15.5	Approx. 30	95 - 105	0.00 - 1.50	No

Sheetfed Spot Colours

Product	Colour Index	Viscosity [1]	Tack [2]	Pigmentation	Colour Strength	Delta E (CIELAB)	FCM suitability
		Pa·s		%	%		
SFF-Y174	Pigment Yellow 174	350 - 650	11.0 - 13.0	Approx. 27	95 - 105	0.00 - 1.50	Yes
SFF-R571	Pigment Red 57:1	170 - 470	12.0 - 14.0	Approx. 29	95 - 105	0.00 - 1.50	Yes
SFF-B153	Pigment Blue 15:3	400 - 800	12.5 - 14.5	Approx. 35	95 - 105	0.00 - 1.50	Yes
Other Shades available [3]	Details on Request						Yes

1) At 20 °C; Physica; D = 5/s
2) At 32 °C and 800 RPM; Thwing Albert Inkometer
3) PY74, PY83, PY139, PY180, PO34, PO43, PR 2, PR48:1, PR48:4, PR53:1, PR112, PR122, PR146, PR184, PR254, PV23, PG7, PBk7, PWh6

Concentrates
Alkali Blue Concentrates for Offset Inks

Product	Product Description	Viscosity [1]	Tack [2]	Pigmentation	Colour Strength	Delta E (CIELAB)
		Pa·s		%	%	
H01-1750IB	Very Red Shade	50 - 100	4.0 - 7.0	Approx. 37	95 - 105	0.00 - 1.50
H03-1750IB	Red Shade	50 - 100	4.0 - 7.0	Approx. 37	95 - 105	0.00 - 1.50
H03-17200IB	Red Shade	180 - 300	12.0 - 15.0	Approx. 37	95 - 105	0.00 - 1.50
H05-17200IB	Medium Shade	180 - 300	12.0 - 15.0	Approx. 40	95 - 105	0.00 - 1.50
H09-17200IB2	Green Shade	200 - 350	13.0 - 16.0	Approx. 40	95 - 105	0.00 - 1.50
H09-17200IB3	Green Shade	200 - 350	13.0 - 16.0	Approx. 27	95 - 105	0.00 - 1.50

1) At 20 °C; Physica; D = 5/s
2) At 32 °C and 800 RPM; Thwing Albert Inkometer

Powder Pigments
For Solvent Based Inks

Product	Product Description	Binder System Recommendation	Colour Strength	Delta E (CIELAB)
			%	
UMP-0957106	Pigment Red 57:1	Vinyl, Polyamide	95 - 105	0.00 - 1.50
UMP-1557117	Pigment Red 57:1	NC	95 - 105	0.00 - 1.50
UMP-1153101	Pigment Red 53:1, Yellowish Shade	Vinyl, Polyamide, PU, NC	95 - 105	0.00 - 1.50
UMP-104802	Pigment Red 48:2, Bluish Shade	Vinyl, Polyamide, PU, NC	95 - 105	0.00 - 1.50
UMP-1501301	Pigment Orange 13, Yellowish Shade	Vinyl, Polyamide, PU, NC	95 - 105	0.00 - 1.50
UMP-2313112	Pigment Yellow 13	NC	95 - 105	0.00 - 1.50
UMP-0815303	Pigment Blue 15:3	Polyamide	95 - 105	0.00 - 1.50
UMP-0715304***	Pigment Blue 15:3	NC	95 - 105	0.00 - 1.50
UMP-0915306	Pigment Blue 15:3	Vinyl	95 - 105	0.00 - 1.50
UMP-1115307	Pigment Blue 15:3	PU	95 - 105	0.00 - 1.50
UMP-0815401***	Pigment Blue 15:4	NC	95 - 105	0.00 - 1.50

*** Not available in EU

Powder Pigments
Offset and UV Inks

Product	Product Description	Binder System Recommendation	Colour Strength	Delta E (CIELAB)
			%	
UMP-1313107	Pigment Yellow 13	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-1217402	Pigment Yellow 174	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-0957106	Pigment Red 57:1	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-0657112	Pigment Red 57:1, Yellowish Shade	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-0957118	Pigment Red 57:1, Yellowish Shade	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-1153101	Pigment Red 53:1, Yellowish Shade	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-104802	Pigment Red 48:2, Bluish Shade	Conv. Offset, UV Offset	95 - 105	0.00 - 1.50
UMP-1501301	Pigment Orange 13, Yellowish Shade	Conv. Offset, UV Offset, UV Flexo	95 - 105	0.00 - 1.50
UMP-0815308	Pigment Blue 15:3	Conv. Offset, Energy Curing	95 - 105	0.00 - 1.50

Powder Pigments
Alkali Blue

Product	Product Description	Binder System Recommendation	Colour Strength	Delta E (CIELAB)
			%	
H03-PDI	Red Shade	Conventional Offset	95 - 105	0.00 - 1.50
H05-PDI	Medium Shade	Conventional Offset	95 - 105	0.00 - 1.50
H05-PDI1	Medium Shade	Conventional Offset	95 - 105	0.00 - 1.50
H09-PDI	Green Shade	Conventional Offset	95 - 105	0.00 - 1.50

Lamination Adhesives
Solvent Free Two-Component

* scale 1 - 10; 10 = perfect

Type	Product Attributes		Key properties	Application
	Bond / Seal Strength*	Chemical Resistance		
Medium-High Performance	5 – 6	Very good	- use with high gauge PE - use with Alu foil - demanding filling goods - hot fill	- very good chemical and heat resistance properties. - aggressive end use applications (e.g. liquids, spices and detergents, or edible oils)
General Performance	4 – 5	Good	- all purpose product for general use - product with increased curing speed - high speed lamination - use with metallized films	- laminates for packaging of snacks and other non-aggressive dry products. - adhesives for general purpose film to film metalized or foil application

Lamination Adhesives
Solvent Based Two-Component

* scale 1 - 10; 10 = perfect

Type	Product Attributes		Key properties	Application
	Bond / Seal Strength*	Chemical Resistance		
High Performance	8 – 9	Excellent	- reverse technology - retort grade up to 130°C - retort grade up to 125°C	- for extremely demanding end uses like packing of acidic liquids and harsh chemicals - can be used in retort applications as well as at very low temperature (deep freeze)
Medium Performance	6 – 7	Very good	- standard medium performance product - high solid, high viscosity	- very good chemical and heat resistance - aggressive end use applications (e.g. liquids, spices and detergents, or edible oils)
General Performance	4 – 5	Good	- standard general performance product - especially suitable for metallized PE films	- laminates for packaging of snacks and other non-aggressive dry products. - adhesives for general purpose film to film, metallized or foil application

hubergroup chemicals

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