



Kempro



32+ YEARS OF EXPERIENCE

20 INDUSTRIES

2.500m² PRODUCTION AREA

15.000mt PRODUCTION CAPACITY

1.200m² LABORATORIES

4.000m² WAREHOUSE

2.500+ PRODUCTS

1.500+ CUSTOMERS

We know what you need

KEMPRO
&
KEMPROPOL
GROUP OF COMPANIES



Kempro Kimyasal Maddeler ve Dış Tic. A.Ş., established in 1991, located in Istanbul, Türkiye, is a chemical and tailor-made polymers producer and also the exclusive agent and distributor of well-known companies all over the world.

Having his own warehouse in its own facilities, Kempro can flexibly provide logistics services on just-in-time delivery basis, to his customers either domestic or global wise.

Experienced and skilled sales force supported by competent technical service, Kempro also provides accurate information about new emerging technologies and products to his customers.

Kempro supplies raw materials for 20 industries such as; paint and coatings, inks, plastics, packaging, elastomers, rubber, adhesives, textile, cable, construction chemicals, automotive, brake linings, medical, cosmetics, white domestic goods, lubricants, food, mining chemicals and machinery.

Kemropol Kimyasal ve Polimer Maddeler Sanayi ve Ticaret A.Ş., established in 2012, produces thermoplastic (1K) and thermoset (2K) acrylic resins, saturated polyesters, polyurethane resins for various industries such as car refinishes, wood, plastic and industrial coatings. With long years of experience, Kemropol can easily modify and adjust the requested features such as OH value, solid content, solvent system, Tg value, etc. of our resins according to the request of his customers on a tailor-made business approach.

Having well-equipped R&D and application laboratories in its own facilities, Kemropol continuously develops tailor-made acrylic polymer & copolymer solutions, polyurethanes, prepolymers, acrylic polyols, polyurethane dispersions, acrylic and acrylic-polyurethane hybrid dispersions, polyaspartic resins, UV curable and 3D printing resins for the specific needs of his customers.

Kemropol produces and develops polymers for car refinishes, industrial coatings, wood coatings, adhesives, textile, leather, construction chemicals and insulation industries.

Kemropol supplies his product range under the brand name KROL®, on just in time delivery basis out of his local premises in Birlik Industrial Zone, located in Tuzla, Istanbul, Türkiye. With experienced and skilled sales force supported by competent technical service, Kemropol provides accurate information and produces polymers by following up the new emerging technologies.



Kempro

OUR PRODUCTS – KROL® SERIES

KROL ACS	: Thermoplastic Acrylic Resins (Solventbased)
KROLAC	: Thermosetting Acrylic Resins
KROLAT	: Saturated Polyester Resins
KROL ACS SPY	: Sprayable Thermoplastic Acrylic Resins
KROL PUP	: Elastomeric Polyurethane Resins for Inks
KROL PPF	: Conventional Polyurethane Resins for Inks
KROL LAC	: Primary Lac for Metallized OPP, Metallized PET and Aluminium Paper Foils
KROL ACD	: Thermoplastic Acrylic Dispersions (Waterbased)
KROL PUHD	: [REDACTED]
KROL WPUD	: Polyurethane Dispersions
KROL PS TD	: Diol Triol Polyester Polyol
KROL AVS	: Thermoplastic PSA Solutions
KEMFLEX	: C4 Monomer Based Polymer Solutions
KEMPRINT	: Elastic Waterbased Printing Pastes
KROL DISCHARGE	: Waterbased Discharge Pastes
KROL PUR 2K	: Rigid Polyurethane Systems
KROL SPY ADH	: Solventbased Single Component Adhesive
KROL PVAc	: 1K Polyvinyl Acetate Multipurpose Adhesives
KROL PUO	: 1K Marine Adhesives
KROL SOLVIOL	: Water Soluble PVAL/PVAc Copolymer Adhesives
KROL TT	: Polyvinyl Acetate - Polyvinyl Alcohol Copolymer Dispersions
KROL PUS	: Polyurethane Floor Coating Resins
KROL SYRUP	: Acrylic Copolymer for 2K Road Marking Paints
KROL ASTAR	: [REDACTED]
KROL BAS	: Styrene Acrylic Copolymer Resin
KROL PRP	: [REDACTED]
KROL PAE	: [REDACTED] s
KROL PPD	: Pour Point Depressant
KROL VII	: Viscosity Index Improver
KROL 3D	: Resins for DLP, LCD, SLA 3D Printers
KROL UV	: [REDACTED] s
KROL IMM	: Impact Modifier for PP
KROL WPOA	: Waterborne Hydroxyl-Functional Acrylic Dispersions
KROL WPUVC	: [REDACTED]

PRODUCT

OUR ACRYLIC RESINS PRODUCT RANGE

KROL ACS 1108	1K Clearcoats and Solid / Metallic Colours
KROL ACS 725 EA	1K Clearcoats and Solid / Metallic Colours, Inks
KROL ACS 731	Plasticization, Additive Resin with High Compatibility
KROL NA 7332	1K Clearcoats and Solid / Metallic Colours
KROLAC 1022 SS 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 203 SS 60	2K Clearcoats and Solid Colours, Fast Drying, High Gloss
KROLAC 209 SS 70	HS 2K Clearcoats and Solid Colours
KROLAC 254 SS 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 254 XX 52	2K Clearcoats and Solid / Metallic Colours
KROLAC 263 SS 60	2K Primers, Clearcoats Solid / Metallic Colours, High Gloss
KROLAC 263 SS 70	2K Primers, Clearcoats Solid / Metallic Colours, High Gloss
KROLAC 263 XS 60	2K Primers, Clearcoats Solid / Metallic Colours, High Gloss
KROLAC 263 XS 70	2K Primers, Clearcoats Solid / Metallic Colours, High Gloss
KROLAC 263 XX 60	2K Primers, Clearcoats Solid / Metallic Colours, High Gloss
KROLAC 271 XS 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 272 SS 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 273 SS 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 273 XX 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 295 SS 51	2K Clearcoats and Solid / Metallic Colours
KROLAC 295 XS 51	2K Clearcoats and Solid / Metallic Colours
KROLAC 296 XS 51	2K Clearcoats and Solid / Metallic Colours
KROLAC 297 XS 51	2K Clearcoats and Solid / Metallic Colours
KROLAC 298 XS 60	2K Clearcoats and Solid / Metallic Colours
KROLAC 311 SS 55	2K Primers and Top Coats, Excellent Adhesion on Difficult Metals and Substrates, Fast Drying, High Gloss
KROLAC 311 XX 55	2K Primers and Top Coats, Excellent Adhesion on Difficult Metals and Substrates, Fast Drying, High Gloss
KROLAC 314 SS 55	2K Primers and Top Coats, Excellent Adhesion on Difficult Metals and Substrates, High Gloss
KROLAC 314 XX 55	2K Primers and Top Coats, Excellent Adhesion on Difficult Metals and Substrates, High Gloss
KROLAC 322 SS 65	2K Clearcoats and Solid / Metallic Colours
KROLAC 496 BX 51	Metallic, Pearl and Solid Colour Acrylic Basecoats for Car Refinishes and OEM
KROLAC 498 SS 50	2K Clearcoats and Solid / Metallic Colours
KROLAC 498 XS 50	2K Clearcoats and Solid / Metallic Colours
KROLAC 627 SS 70	HS 2K Clearcoats and Solid Colours
KROLAC 864 SS 70	HS 2K Clearcoats and Solid Colours
KROLAT 279 SS 80	Flexible Saturated Polyester Resin
KROLAT 284 MX 60	Metallic, Pearl and Solid Colour Acrylic Basecoats for Car Refinishes and OEM, Baking Systems when Combined with Melamine Formaldehyde Resins
KROLAT 381 XS 70	2K Saturated Polyester Systems
KROLAT 586 SS 70	1K Systems when Combined with Melamine Formaldehyde / 2K Systems
KROLAT 586 SS 80	1K Systems when Combined with Melamine Formaldehyde / 2K Systems
KROLAT 950 XX 70	1K / 2K Systems



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CAR REFINISHES

We produce thermoplastic and thermosetting solvent borne acrylic resins for car refinishes for primers, topcoats, basecoats and clearcoats with:

- Good compatibility with other ingredients
- Relatively fast drying
- Superior adhesion / intercoat adhesion with relevant layers
- Superior physical and chemical resistance properties
- Superior weathering resistance

- KROLAC : Thermosetting Acrylic Resins
- KROLAT : Saturated Polyester Resins
- KROLACS : Thermoplastic Acrylic Resins



Car Refinishes by Layers

Layers	System	Kempro Products
5. Clear Coat	Acrylic K	KROLAC 263 SS 70 KROLAC 203 SS 60 KROLAC 627 SS 70
4.b. Base Coat (solid, metallic or pearl colors)	Acrylic 1K	KROLAC 496 BX 51
4.a. Top Coat (solid colors)	Acrylic 2K	KROLAC 203 SS 60 KROLAC 263 SS 70
	Acrylic 1K	KROL ACS 725 KROL NA 7332
3. Primer / Surfacer	Acrylic 2K	KROLAC 263 SS 70 KROLAC 498 XS 50 KROLAC 311 XX 55
2. Polyester Putty	Unsaturated Polyester	
1. Substrate	Steel, Aluminium, Galvanized steel, SMC	

WOOD COATINGS



We produce thermoplastic and thermosetting solvent borne acrylic resins for wood coatings for the formulation of sealers, primers, topcoats and clearcoats with:

- Good compatibility with other ingredients
- Relatively fast drying
- Superior adhesion / intercoat adhesion with relevant layers
- Goods and ability/polishability
- Superior physical and chemical resistance properties
- Superior weathering resistance

- KROLAC : Thermosetting Acrylic Resins
- KROLAT : Saturated Polyester Resins
- KROL ACS : Thermoplastic Acrylic Resins
- KROL PUHD : Polyurethane-Acrylic Hybrid Dispersions
- KROL WPOA : Waterborne Hydroxyl-Functional Acrylic Dispersions



Wood Coatings by Layers

Layers	System	Kempro Products
4.a. Clear Coat	Acrylic PU	KROLAC 295 SS 51
4.b. Top Coat (Solid)	Acrylic PU	KROLAC 295 SS 51 * KROLAC 263 SS 60 ** KROLAC 263 SS 70 **
3.a. Sealer	Acrylic PU	KROLAC 295 SS 51
3.b. Primer Surfacer	Acrylic PU	KROLAC 295 SS 51 * KROLAC 263 SS 60 ** KROLAC 263 SS 70 **
2. Wood Preservative / coloring	Synthetic antifungal colorants	
1. Substrate	Natural wood, MDF	

* Fast drying, more economical, non-yellowing, moderate physical and chemical resistances
 ** Non-yellowing, very high physical and chemical resistances, very high gloss

We produce thermoplastic and thermosetting coatings resins for general industrial coatings and various metal surfaces with:

- Good compatibility with other ingredients
- Relatively fast drying
- Superior adhesion / intercoat adhesion with relevant layers
- Superior physical and chemical resistance properties
- Superior weathering resistance

- KROLAC : Thermosetting Acrylic Resins
- KROLAT : Saturated Polyester Resins
- KROLACS : Thermoplastic Acrylic Resins
- KROLBAS : Styrene - Acrylic Copolymer
- KROL PUS : 1K Polyurethane System
- KROL PAE : Polyaspartic Esters



Industrial Coatings by Layers

Layers	System	Kempro Products
3. Top Coat	Acrylic Polyurethane	KROLAC 263 SS 60 KROLAC 498 XS 50 KROLAC 864 XS 60
2. Primer	2.a. Epoxy Anticorrosive	Conventional epoxy/PA resins
	2.b. Acrylic Polyurethane	KROLAC 263 SS 60 KROLAC 498 XS 50 KROLAC 311 XX 55 KROLAC 254 SS 60
1. Substrate	Steel, Aluminium, Galvanized Steel	Degreasing Phosphating Electrodeposition (CED)

PLASTIC COATINGS

We produce thermoplastic and thermosetting coatings resins for plastic parts of automotive, white goods, furniture and electronic industries with:

- Good compatibility with other ingredients
- Relatively fast drying
- Superior adhesion / intercoat adhesion with relevant layers
- Superior physical and chemical resistance properties

- KROLAC : Thermosetting Acrylic Resins
- KROL ACS : Thermoplastic Acrylic Resins
- KROL WPUD : Polyurethane Dispersions
- KROL WPUVC : UV Curable Polyurethane Dispersions



Plastic Coatings by Material Types

Sector	Part / Material Type	Kempro Products
1. Automotive Industry (Exteriors)	Bumpers (PP+EPDM)	KROLAC 496 BX 51 KROLAC 263 SS 60
	Mirror nests (ABS)	KROLAC 498 XS 50 KROLAC 263 SS 60
	Front Grill (ABS)	KROLAC 498 XS 50 KROLAC 263 SS 60
	Side Bars (Flexible PVC)	KROLAC 498 XS 50
	Door Handles (ABS)	KROLAC 498 XS 50 KROLAC 263 SS 60
	Wheel Covers (ABS, Polyamide)	KROLAC 498 XS 50
2. Automotive Industry (Interiors)	Dashboard (ABS)	KROLAC 263 SS 60
	Door handles (ABS)	KROLAC 498 XS 50 KROLAC 263 SS 60
	Door panels (PP / ABS)	KROLAC 498 XS 50 KROLAC 263 SS 60
	Electronic parts (ABS)	KROL NA 7332
	Other small parts (ABS)	KROL NA 7332 KROLAC 498 XS 50
3. Home Electronics	(ABS, HIPS, PS, PC)	KROL NA 7332 KROL ACS 1108
4. Furniture Accessories	(ABS, PS, HIPS)	KROL NA 7332
5. Others	(ABS, PVC, FRP, SMC, PS, PC, HIPS)	-

Abbreviations:

- ABS : Acrylonitrile butadiene styrene
- PVC : Polyvinyl chloride
- PS : Polystyrene
- HIPS : High impact polystyrene
- PC : Polycarbonate
- PP : Polypropylene
- EPDM : Ethylene propylene diene monomer (rubber)
- FRP : Fiber reinforced plastic (polyester)
- SMC : Sheet moulding compound (polyester)



Kempro

INK RESINS

PU resins for NC based printing inks are for printing on to flexible film which is used for the packaging of food products such as biscuits and cake. PU resins can be categorized Conventional and Elastomeric.

Our resins have binder properties which can be combined with NC binders in ink systems, have excellent flexibility, with high adhesion force on the polyolefin substrate, high heat resistance, very glossy characteristics in color, high covering characteristics over the black color and are compatible with all types of resins,

- KROL PPF : Conventional PU Series
- KROL PUP : Elastomeric PU Series
- KROL LAC M : Primer Lac for Metallized Surfaces
- KROL ACS : Thermoplastic Acrylic Resins
- KROL WPUD : Polyurethane Dispersions



Specifications:

Product Name	Type	%Solid (±2)	Solvent(s)	Viscosity (mPas)
KROL PPF 560/75	Polyurethane	75	IPA, E.Acetate	350-1500
KROL PPF 660	Polyurethane	100	IPA, E.Acetate	3000-5000
KROL LAC M	Acrylic	16	Water, IPA E.Acetate	500-700
KROL PUP 160	Polyurethane	52	E.Acetate	1000-4000
KROL PUP 160 Y	Polyurethane	52	E.Acetate	1000-4000
KROL PUP 180 Y	Polyurethane	52	E.Acetate	1000-4000
KROL ACS BMMA EA	Thermoplastic	40	E.Acetate	500-1000
KROL ACS 725 EA	Thermoplastic	50	E.Acetate	3000-6000

KROL PPF: Conventional PU Series in Gravure and Flexo Inks for NC Systems:

- Provides excellent adhesion
- Improves heat resistance
- Avoids blocking
- Provides water and oil resistance
- Avoids migration
- Avoids to cause odour causing
- Could be compatible with all resins and solvents
- Avoids any solvent residue

KROL PUP: Elastomeric PU Series in Gravure and Flexo Inks

- Provides excellent adhesion for all plastic films
- Provides excellent band strength for lamination
- Avoids blocking
- Excellent flexibility
- Excellent friction resistance
- Excellent results of Heat-Seal jaw release

KROL LAC M: Metallized OPP, Metallized PET and Primary Lacquer for Aluminum Foil paper

- Provides transparent, brittle, rigid and glossy film
- Provides high UV resistance
- Provides high adhesion metallized OPP surfaces

KROL ACS BMMA EA: Resins in PVC Inks

- Provides transparent, colorless, rigid film
- Provides anti-blocking and non-sticky film
- Provides hydrophobic film
- Provides high chemical and hydrolysis resistance
- Provides high UV resistance
- Provides water and carbon dioxide barrier properties
- High adhesion of a binding feature

POLYASPARTIC ESTERS



Our 100 % solid, UV resistant polyaspartic esters are amine-functional reactive materials formulated for indoor and outdoor coating applications on concrete, steel or composite surfaces. When cured with aliphatic polyisocyanates, our KROL PAE polyaspartic esters provide superior performance, beneficial for the end user including high build, which can improve return to service times.

Materials can be used alone or blended to achieve specific cure times.

- KROL PAE 2420
- KROL PAE 2520
- KROL PAE 2720

Application areas:

- ✓ Industrial coatings
- ✓ Corrosion protection
- ✓ Gel coats
- ✓ Automotive refinishing
- ✓ Construction

- Rapid drying times at ambient temperatures
- Reduced number of coats; a much greater film thickness in a single operation
- Lower energy costs and CO₂ emissions
- Ideal for both interior and exterior applications
- Robust and easy application with standard equipments
- Near - zero VOC content
- Adjustable flexibility through the chosen polyisocyanate
- Resistance to acids and alkali
- Abrasion resistance and impact strength
- Easy to repair



Specifications:

Product Name	Viscosity (25°C, mPas)	Colour (Hazen)	Equivalent weight
KROL PAE 2420	800-1800	≤ 200	approx.276
KROL PAE 2520	600-1800	≤ 100	approx.29
KROL PAE 2720	≤ 500	≤ 100	approx.295

WATERBORNE ACRYLIC POLYOL DISPERSIONS FOR 1K & 2K INDUSTRIAL COATINGS

Kempro's new product range ; KROL WPOA for waterborne acrylic polyol dispersions for 2K industrial coatings, offer superior solutions for the formulation of primers, topcoats and clearcoats with:

- High chemical & weathering resistance
- Very fast drying & curing with long pot life
- Excellent gloss
- Good compatibility with other ingredients
- Low thermo-yellowing with low VOC
- Good adhesion & levelling properties



Wood Coatings by Layers

Layers	System	Kempro Products
4.a. Clear Coat	Acrylic dispersion	KROL WPOA-43 KROL WPOA-44 KROL WPOA-45 KROL WPOA-46 KROL WPOA-48 KROL WPOA-51 KROL WPOA-52 KROL WPOA-54
4.b. Top Coat	Acrylic dispersion	KROL WPOA-43 KROL WPOA-44 KROL WPOA-45 KROL WPOA-46 KROL WPOA-48 KROL WPOA-51 KROL WPOA-52 KROL WPOA-54
3.a. Sealer	Acrylic PU	-
3.b. Primer Surfacer	Acrylic dispersion	KROL WPOA-43 KROL WPOA-44 KROL WPOA-45 KROL WPOA-46 KROL WPOA-48 KROL WPOA-51 KROL WPOA-52 KROL WPOA-54
2. Wood Preservative / coloring	Synthetic antifungal colorants	-
1. Substrate	Natural wood, MDF	-

Specifications:

Product Name	%Solid (± 2)	%OH	Co-Solvent
KROL WPOA-43	30	4,4	PnB
KROL WPOA-44	35	4	PnB
KROL WPOA-45	26	4,2	PnB
KROL WPOA-46	28	4,3	PnB
KROL WPOA-48	30	4	PnB
KROL WPOA-51	37	4	PnB
KROL WPOA-52	40	5	PnB
KROL WPOA-54	35	4,7	PnB

Kempro's new designed water-based acrylic polyol dispersions give cost-effective and high stable coatings to metal & wood surfaces with unique features:

- Excellent corrosion protection
- High performance clear & topcoat layers
- Good mechanical resistance
- High smooth surfaces

➤ KROL WPOA : Waterborne Hydroxyl-Functional Acrylic Dispersions



Industrial Coatings by Layers

Layers	System	Kempro Products
3. Top Coat	Acrylic dispersion	KROL WPOA-43 KROL WPOA-44 KROL WPOA-45 KROL WPOA-46 KROL WPOA-48 KROL WPOA-51 KROL WPOA-52 KROL WPOA-54
2. Primer	2.a. Epoxy anticorrosive	-
	2.b. Acrylic dispersion	KROL WPOA-43 KROL WPOA-44 KROL WPOA-45 KROL WPOA-46 KROL WPOA-48 KROL WPOA-51 KROL WPOA-52 KROL WPOA-54
1. Substrate	Steel, Aluminum, Galvanized Steel	-

Specifications:

Product Name	%Solid (±2)	%OH	Co-Solvent
KROL WPOA-43	30	4,4	PnB
KROL WPOA-44	35	4	PnB
KROL WPOA-45	26	4,2	PnB
KROL WPOA-46	28	4,3	PnB
KROL WPOA-48	30	4	PnB
KROL WPOA-51	37	4	PnB
KROL WPOA-52	40	5	PnB
KROL WPOA-54	35	4,7	PnB

Kempro's broad water-based polyurethane dispersion portfolio supports the formulators from industries with the products with the properties below:

- Non-toxic
- Pollution free
- Non-flammable
- Excellent adhesive properties
- Abrasion resistance
- Corrosion resistance
- Resistance to chemicals, solvents, and water
- Outstanding flexibility and impact resistance

- KROL WPUD : Polyurethane Dispersions
- KROL WPUVC : UV Curable Polyurethane Dispersions



Specifications:

Kempro Aliphatic Anionic Polyurethane Dispersion

Product Name	Type	% Solid	Viscosity (25°C, mPas)	Fmax Elongation (%)	Max Tensile Strength (N/mm ²)
KROL WPUDs 21	Polyether	40	150-1000	1600+-300	24+-8
KROL WPUDs 75 C	Polyether	40	150-1000	1400+-300	35+-8
KROL WPUDs 110	Polyether	40	15-500	330+-100	23+-5
KROL WPUDs 123	PC	40	15-500	843+-200	32+-5

Kempro Aliphatic Anionic/Nonionic Polyurethane Dispersion

Product Name	Type	% Solid	Viscosity (25°C, mPas)	Fmax Elongation (%)	Max Tensile Strength (N/mm ²)
KROL WPUDs 74	Polyether	40	15-500	1300+-200	7+-3
KROL WPUDs 90	Polyether	40	100-600	1300+-200	20+-5

Kempro Anionic UV Curable Dispersions

Product Name	Type	% Solid	Viscosity (25°C, mPas)	Particle Size (nm)	pH
KROL WPUVC 225	PC	35	10-20	< 200	7-8
KROL WPUVC 236	PC	35	9-14	< 200	7-8
KROL WPUVC 237	Polyester	35	10-15	< 200	7-8

Application areas:

- ✓ Industrial coatings
- ✓ Wood and furniture coatings
- ✓ Metal and plastic coatings for industrial applications
- ✓ High-grade floor coatings
- ✓ Automotive OEMs, transportation vehicles and refinishing coatings
- ✓ Textile coatings
- ✓ Fiber sizings
- ✓ Paper and printing ink industries.

UV-curing polyurethane dispersions combine fast curing with excellent coating properties. These products are extensively used in wood coatings and are also growing very fast in plastic coatings. We are constantly expanding our portfolio to include additional applications.

3D PRINTING RESINS



We design and produce tailor-made UV-curable 3D printing resins for LCD and DLP 3D Printers. Our 3D Printing resins are suitable for general shoe prototyping, shoe sole modelling applications as well as functional prototyping and small batch manufacturing.

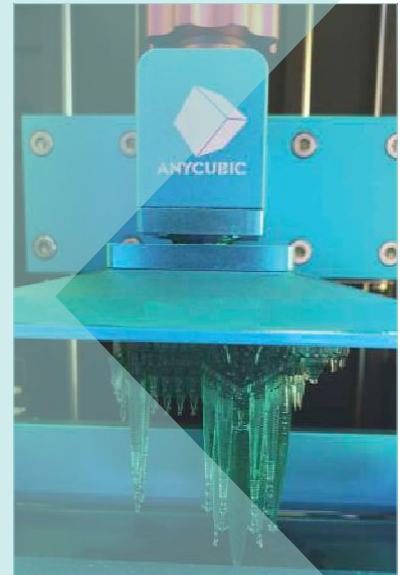
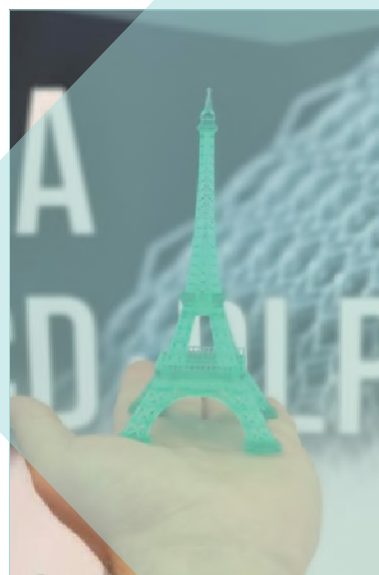
Kempro brand names for 3D printing resins:

- **KROL 3D Model**
Provides excellent surface details with fast printability. It is recommended for general prototyping and shoe sole modelling applications.
- **KROL 3D Flexy Tough**
Provides excellent combination of flexibility and durability. It is recommended for functional prototyping applications.
- **KROL 3D Tough**
Provides high toughness and low viscosity as well as dimensional stability and fast printing for functional prototyping and small batch manufacturing.



Specifications:

Product Name	Viscosity (mPas)	Tensile Strength (MPa)	Elastic Modulus (Mpa)	Elongation @ Break
KROL 3D Model	250-350	35-40	450-500	10-15
KROL 3D Flexy Tough	150-250	40-45	500-550	35-45
KROL 3D Tough	250-350	45-50	650-700	30-35





Kempro

ADHESIVE RESINS

Our adhesive resins can be categorized as solutions & emulsions copolymers homopolymer and polyurethanes.

These resins can be applied for paper, wood, textiles, leather and plastics surfaces.

- KROL PVAC
- KROL ACD
- KROL AVS
- KROL SOLVIOL
- KROL TT



Adhesive Resins by Application

Furniture	Paper	Textile and Leather
KROL TT D3	KROL PVAc EA	KROL PVAc EA
KROL TT D4	KROL SOLVIOL	KROL AVS 33
KROL PUO MARIN		KROL AVS 50
		KROL ACD PSA

Specifications:

Product Name	Type	%Solid (± 2)	Solvent(s)	Viscosity (mPas)
KROL TT D3	Vinyl Acetate	44	Water	12000-20000
KROL TT D4	Vinyl Acetate Vinyl Alcohol	44	Water	12000-20000
KROL PUO MARIN	Polyurethane	90	Solv. Naphta.	6000
KROL SOLVIOL	Vinyl Acetate Vinyl Alcohol Copolymer	12	Water	3000-5000
KROL PVAC EA	Vinylic	36	E.Aceatate, Acetone	3000-4500
KROL AVS 33	Acrylic Vinylic	33	E.Aceatate, Acetone	250-500
KROL AVS 50	Acrylic Vinylic	50	E.Aceatate,	4000-6000
KROL ACD PSA	Acrylic Copolymer	52	Water	100-300

TEXTILE PRODUCTS



Our textile products are divided into two main groups as printing paste and adhesives. Our all printing pastes are water based and formaldehyde & PVC & Phatalate & A.P.E.O & heavy metal free. Adhesive group consist of solution and emulsion pressure sensitive adhesives and solution resins.

- KEMPRINT
- KROL DISCHARGE
- KROL PUD
- KROL AVS
- KROL ACD
- KROL WPUD



Textile Products by Application

Printing Paste	Discharge Paste	Adhesives
KEMPRINT TR	KROL DISCHARGE TR	KROL AVS 2018
KEMPRINT WT	KROL DISCHARGE WT	KROL ACD PSA
	KROL ACTIVATOR	KROL PVAc EA

Specifications:

Product Name	Type	%Solid (±2)	Solvent(s)	Viscosity (mPas)
KEMPRINT WHITE	Polyurethane Acrylic	53	Water	70000-85000
KEMPRINT TRANS.	Polyurethane Acrylic	45	Water	70000-85000
KROL DISCHARGE WT	Acrylic	54	Water	55000-70000
KROL DISCHARGE TR	Acrylic	42	Water	65000-90000
KROL AVS 2018	Acrylic Solution	18	Acetone	150-200
KROL ACD PSA	Acrylic Copolymer	52	Water	100-300
KROL PVAc EA	Vinylic	36	E.Acetate, Acetone	3000-4500



Kempro

RIGID PU SYSTEMS

Rigid polyurethane is two component system which is produced for furniture sector and decorative applications. This system is used for wood imitation such as furniture parts, air conditioner lids, mirror frames and some automotive parts. High mechanical strength and hardness, simple molding process, high production efficiency and excellent appearance are some of common characteristics of Rigid PU systems.

Advantages of our KROL PUR 2K;

- Lower application temperature
- Longer mould life
- 1:1 component ratio
- Excellent pigment and filling agent dispersion
- Pot life of 4 - 5 minutes
- Lower viscosity
- High humidity resistance



CONSTRUCTION CHEMICALS

We produce resins for insulation, concrete and floor coatings.



Product	Resin Type	Solid Content (%)	Solvent System	Application
KROL BAS A5	THERMOPLASTIC ACRYLIC RESIN	50	XYLENE	Metal Coatings
KROL BAS N	THERMOPLASTIC ACRYLIC RESIN	50	XYLENE	Concrete and Floor Coatings
KROL ACS CURE	THERMOPLASTIC ACRYLIC RESIN	16	XYLENE	Concrete and Floor Coatings
KROL ACS SEAL	THERMOPLASTIC ACRYLIC RESIN	20	MEK, XYLENE	Concrete and Floor Coatings
KROL PUS 1K	1K POLYURETHANE RESIN	60	TOLUEN	Concrete and Floor Coatings
KROL PUS 2K	2K POLYURETHANE RESIN	65	ETHYL ACETATE/XYLENE	Concrete and Floor Coatings
KROL PRP 501	PREPOLYMER, POLYURETHANE RESIN	80	XYLENE	Concrete and Floor Coatings
KROL WPUD 21	POLYURETHANE DISPERSION	40	WATER	Concrete and Floor Coatings
KROL PRP 502 ARM	1K POLYURETHANE PREPOLYMER AROMATIC	80	XYLENE	Concrete and Floor Coatings
KROL PRP 502 ALP	1K POLYURETHANE PREPOLYMER ALIPHATIC	80	XYLENE	Concrete and Floor Coatings



Kempro

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