ARKEMA EMULSION SYSTEMS

POLYMER SELECTION GUIDE

Delivering more choices in polymers for

- Architectural and Industrial Coatings
- Specialty Coatings
- Traffic Paints
- Pressure Sensitive Adhesives
- Sealants and Construction Products
- Coatex Dispersants and Thickeners

Featuring EnVia™ Certified Latexes

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You can expect more choices from Arkema Emulsion Systems. And we deliver.

Delivering more choices in polymers for the industries we serve.
When you evaluate the raw materials for your formulated products, Arkema Emulsion Systems together with Coatex*, a subsidiary of Arkema, offers the widest range of technology platforms to choose from to meet your exact requirements. Our goal is to help you identify a product from *our line* that enables you to formulate a competitive advantage into *your product line*.

The information presented in this Polymer Selection Guide will serve as a starting point in your evaluation process. Additional information is available from your Arkema representative. You can also visit our web site www.arkemaemulsionsystems.com for technical data sheets and starting point formulations for many of the products listed in this guide.

Before handling the materials listed in this bulletin, read and understand the product MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health and environmental information. For environmental, safety and toxicological information, contact our Customer Service Department at 1-866-837-5532 to request an MSDS, or visit our web site: www.arkemaemulsionsystems.com

Additional information is also available in North America from our Latex Line – call 1.866.837.5532.

For information on latex storage and handling please request bulletin 309-00608 – Storage and Handling of Latexes.

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** As a subsidiary of Arkema Group, Coatex is one of the world's leading producers of rheological additives for aqueous formulations. Arkema Emulsion Systems represents Coatex thickeners and dispersants in the U.S.A. and Canada for certain markets including coatings. Arkema Emulsion Systems works closely with Coatex to provide product and application technical service in the selected markets.*

Our wide range of choices helps you optimize performance and value in your formulated products.

There is no universal technology platform that is right for every application. Our investments in manufacturing, technology development and ongoing customer support mean that you can always expect an objective recommendation driven by our goal of delivering the best combination of performance and value to meet your requirements.

EnVia™ Certified Latexes – these products meet the standards of Arkema Emulsion Systems' EnVia™ program. EnVia™ certified products may assist formulators in meeting their sustainability and regulatory goals in their finished products. A description of the EnVia™ self-certification program is available at www.arkemaemulsionsystems.com.

UCAR™ All-Acrylic Latexes – Arkema produces a wide range of all-acrylic latexes for use in applications such as interior or exterior paints, high PVC paints, semi-gloss and high-gloss architectural coatings, sealants, adhesives and elastomeric coatings.

UCAR™ Vinyl Acrylic Latexes – our advanced vinyl acrylic latexes are dependable vehicles for a wide range of architectural coatings. UCAR™ vinyl acrylic latexes enable formulation at low or zero VOC without compromising performance. Vinyl acrylic latexes are well-suited for blending with 100% acrylic latexes to optimize cost-performance.

UCAR™ Styrene Acrylic Latexes – UCAR™ styrene acrylic latexes provide excellent adhesion, water resistance and gloss development in applications such as porch and deck enamels, interior/exterior high-gloss enamels, and traffic paints.

NEOCAR® Vinyl Versatate Modified Latexes – NEOCAR® Acrylics and NEOCAR® latexes utilize branched vinyl ester monomers that provide enhanced properties such as exterior durability and hydrophobicity. NEOCAR® products deliver superior performance for a variety of exterior applications, such as coating masonry or wood.

EVOCAR® Ethylene Modified Polymers – Ethylene modified binders are an excellent choice for low odor and low or zero VOC coatings where blending with acrylic latex is not required. EVOCAR® latexes offer excellent touch-up and scrub properties in architectural coatings.

SNAP™ Structured Nano-Acrylic Polymers – this technology platform includes acrylic latexes that offer exceptional performance in architectural coatings at zero or low VOC levels.

UCAR™ Flex Latexes – this line of products enables improved dirt pickup resistance, weatherability and elongation in low-VOC elastomeric coatings.

Arkema Emulsion Systems represents Coatex, Inc. thickeners and dispersants in the U.S.A. and Canada. These products offer innovative solutions to help customers switching from solvent-based to waterborne coatings.

Coatex Dispersants
ECODIS™ – a range of dispersing agents recommended when both outstanding shelf life and cost/performance ratio are required for medium to high PVC formulations.

COADIS™ – a range of dispersing agents designed to meet specific requirements of coatings such as gloss, corrosion or scrub resistance. COADIS™ dispersing agents are recommended for a variety of pigments.

Coatex Thickeners
A broad selection of possibilities within each key rheology additive technology.

COAPUR™ – a range of associative polyurethane thickeners (HEUR) which covers a broad spectrum of rheology profiles, from newtonian to pseudo plastic, delivering exceptional flow and levelling behavior. COAPUR thickeners are VOC free, APEO† as well as heavy metal-free.

RHEOTECH™ – a range of associative acrylic thickeners to match the variety of requirements faced by the formulator. Key features include in-can appearance, syneresis control, outstanding thickening effectiveness and APEO-free.

POLYPHOBE® – tailored rheology series, specifically designed for its rheological profile combined with high solids content.

†alkyl phenol ethoxylate

EnVia™
SNAP™ STRUCTURED NANO-ACRYLICS
UCAR™ flexLATEX
coatex Additives Designers
ARKEMA GROUP

Note: Products that display the EnVia leaf icon meet the standards of Arkema Emulsion Systems' program.

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Architectural Coatings

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	Minimum Filming Temperature (°C)	Glass Transition Temperature (midpoint °C)	Low VOC Potential, Minimum	Description
UCAR™ Latex 300	Vinyl Acrylic	55	5	9	0.3	50	0	4	0	UCAR™ Latex 300 is a general-purpose binder that offers outstanding film formation and application properties without the use of coalescing solvents or glycols. It is an excellent choice when formulating cost-effective low odor or solvent-free coatings.
UCAR™ Latex 309	Vinyl Acrylic	55	5	9	0.3	<500	12	19	<50	UCAR™ Latex 309 is a high molecular weight vinyl-acrylic latex designed for architectural coatings where maximum scrub resistance and exterior durability are of primary importance. UCAR™ Latex 309 may assist formulators in meeting specific regulatory requirements as well as their own sustainability goals and independent ecolabelling standards, depending on the manufacturer's formulation for the finished product.
UCAR™ Latex 320	Vinyl Acrylic	55	5	9	0.3	<500	0	4	0	UCAR™ Latex 320 sets the highest performance standard for vinyl acrylic binders in low VOC architectural coatings. It allows the coatings formulator to deliver improved performance while helping to meet low VOC targets in their formulated product. The outstanding balance of performance properties makes it an excellent candidate to consolidate all vinyl technology needs.
UCAR™ Latex 357	Vinyl Acrylic	56.5	5	9.1	0.3	275	12	23	100	UCAR™ Latex 357 is suitable for use in interior finishes from flat to semigloss. Incorporation of non-VOC coalescing solvents allows the formulator to meet a variety of (0-250 g/L) VOC targets.
UCAR™ Latex 367	Vinyl Acrylic	55	5	9	0.4	550	10	19	100	UCAR™ Latex 367 is a general-purpose binder that offers excellent versatility, including the capability of making stable, one-package intumescent paints. It is compatible with multivalent salts and other ingredients typically found in intumescent paints.
UCAR™ Latex 379G	Vinyl Acrylic	55	5	9	0.3	500	12	19	50	UCAR™ Latex 379G is a high molecular weight polymer that delivers very high scrub resistance and durability in both interior and exterior architectural coatings. This polymer combines high molecular weight with an optimized glass transition temperature to produce flexible films with excellent grain crack resistance and exterior durability.
EVOCAR® Latex 281	Ethylene Modified Latex	55	5	8.9	0.35	100	<5	11	<50	EVOCAR® Latex 281 delivers excellent scrub resistance and touch-up properties in architectural coatings. EVOCAR® Latex 281 can be formulated into coatings covering the VOC range from 0 – 50 g/L.
EVOCAR® Latex 282	Ethylene Modified Latex	55	5	8.8	0.4	500	0	11	0	EVOCAR® Latex 282 is a high performance general-purpose vinyl acetate/ethylene (VAE) binder for architectural coatings. It may assist formulators in meeting specific regulatory requirements as well as their own sustainability goals and independent ecolabelling standards, depending on the manufacturer's formulation for the finished product.
NEOCAR® Acrylic 820	NEOCAR® Acrylic	45.0	8.5	8.5	0.07	150	17	20	50	NEOCAR® Acrylic 820 is an ultra-small particle size, hydrophobic latex that provides outstanding water resistance when formulated into clear sealers, semi-transparent and solid color stains, as well as paints applied over wood and cementicious substrates.
NEOCAR® Acrylic 850	NEOCAR® Acrylic	45	85	8.7	0.07	150	45	50	100	NEOCAR® Acrylic 850 is an ultra-small particle size, hydrophobic latex with ambient self-crosslinking. It is designed for use in clear sealers or coatings for wood, masonry, and cement where outstanding durability is required. In floor coatings, this polymer contributes outstanding chemical, hot tire pickup and blush resistance.
NEOCAR® Latex 2300	NEOCAR® Latex	55	4	9.1	0.3	50	2	5	100	NEOCAR® Latex 2300 displays outstanding hydrolytic stability, water resistance and binding efficiency. The polymer is especially well suited for use in coatings for cement-based surfaces and provides excellent durability over previously painted substrates.
NEOCAR® Latex 2535	NEOCAR® Latex	53.5	6.5	8.8	0.3	500	8	10	50	NEOCAR® Latex 2535 displays outstanding performance over dimensionally unstable woods and plywood. Exterior flat formulations based on NEOCAR® Latex 2535 show grain cracking resistance that compares favorably with coatings based on all-acrylic latexes.
UCAR™ Latex 123	Styrene Acrylic	60	8.5	8.9	0.5	200	0	-17	<50	UCAR™ Latex 123 is a high-solids styrene-acrylic binder that combines high adhesion with very good resistance to water and alkali. Its primary application area is in elastomeric weather-barrier coatings.
UCAR™ Latex 461	Styrene Acrylic	47	9.5	8.6	0.08	1000	0	-3	100	UCAR™ Latex 461 latex is one in a series of three Ultra-Gloss latex products (UCAR™ Latex 471 and UCAR™ Latex 481) with similar properties with alkyd-like rheology and gloss properties. UCAR™ Latex 461 Latex is the softest polymer of the series and can be used for primer applications requiring excellent adhesion, flexibility and rheology.
UCAR™ Latex 471	Styrene Acrylic	48	9.5	8.7	0.08	400	22	44	250	UCAR™ Latex 471 latex is the hardest polymer of the series and is designed for coatings for metal and other rigid substrates.

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Architectural Coatings *(continued)*

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	Minimum Filming Temperature (°C)	Glass Transition Temperature (midpoint °C)	Low VOC Potential, Minimum	Description
UCAR™ Latex 481	Styrene Acrylic	48	9.5	8.7	0.08	400	0	-3	100	UCAR™ Latex 481 latex is the intermediate polymer of the series and is designed for general topcoat applications. It is sufficiently flexible to have excellent grain crack resistance while providing good early block resistance.
UCAR™ Latex 3176A	Styrene Acrylic	50	8	8.9	0.2	300	0	-7	<50	UCAR™ Latex 3176A is a modified acrylic polymer specifically developed to be used as a cost-effective binder for elastomeric coatings. This polymer displays excellent elasticity, weather resistance, and adhesion to many difficult substrates.
UCAR™ Flex Latex 3186	Styrene Acrylic	50	8	8.9	0.2	300	0	-7	<50	UCAR™ Flex Latex 3186 is a styrene-acrylic binder designed for cost-effective elastomeric roof and wall coatings, offering a good balance of properties such as weatherability, elongation, water resistance, caustic resistance and outstanding dirt pick-up resistance.
UCAR™ Latex DL215	Styrene Butadiene	49	7.8	8.6	0.1	200	NA	39	<150	UCAR™ Latex DL215 is a high Tg styrene butadiene latex designed as a modifier for UCAR™ Latex DL313. It is uniquely suited for primer applications that require harder paint film and block resistance for applications requiring moisture vapor barrier, alkali resistance, and adhesion to galvanized metals.
UCAR™ Latex DL313	Styrene Butadiene	49	8.5	8.6	0.1	300	NA	-1	<50	UCAR™ Latex DL313 is a modified styrene butadiene latex that provides high performance in a variety of multipurpose and specialty primer and sealer paints. It is uniquely suited for primer applications that require moisture vapor barrier, alkali resistance, and adhesion to galvanized metals.
UCAR™ Latex 156	Acrylic	60	8	8.9	0.45	150	0	-18	<50	UCAR™ Latex 156 is a high solids, all acrylic binder designed for elastomeric weather-barrier applications. This 100% acrylic polymer can be formulated to exceed the requirements set forth in ASTM D 6083.
UCAR™ Flex Latex 187	Acrylic	60	8	8.9	0.45	150	0	-18	<50	UCAR™ Flex Latex 187 is a high solids, all-acrylic binder designed for elastomeric roof and wall coatings. This 100% acrylic polymer offers outstanding dirt pick-up resistance and can be formulated to exceed the requirements set forth in ASTM D 6083.
UCAR™ Latex 625	Acrylic	50	9	8.7	0.3	500	12	14	100	Coatings based on UCAR™ Latex 625 show excellent wet and dry adhesion over chalky surfaces and aged alkyd substrates, excellent blister resistance and grain crack resistance over bare wood.
UCAR™ Latex 626	Acrylic	50	9	8.6	0.2	300	20	29	150	UCAR™ Latex 626 delivers excellent gloss development, wet and dry adhesion and grain crack resistance, making it suitable for use in both exterior and interior formulations.
UCAR™ Latex 627	Acrylic	43.5	7.5	8.8	0.1	550	9	15	50	UCAR™ Latex 627 is designed for use in stain-blocking primers, masonry primers and wood stains. Wood stains based on UCAR™ Latex 627 display good freeze-thaw stability and heat-aged performance. Masonry primers offer outstanding efflorescence and alkali resistance.
UCAR™ Latex 631	Acrylic	50	9	8.9	0.15	50	0	NA	0	UCAR™ Latex 631 is a high performance 100% acrylic latex that can be formulated from flat to high gloss coatings for both interior and exterior applications. It may assist formulators in meeting specific regulatory requirements as well as their own sustainability goals and independent ecolabelling standards, depending on the manufacturer's formulation for the finished product.
UCAR™ Latex 634	Acrylic	50	9	8.9	0.15	<500	0	<4	0	UCAR™ Latex 634, a 100% acrylic binder, offers exceptionally high scrub resistance and excellent film formation at or below 50 g/L VOC. It may assist formulators in meeting specific regulatory requirements as well as their own sustainability goals and independent ecolabelling standards, depending on the manufacturer's formulation for the finished product.
UCAR™ Latex 651	Acrylic	65	9.1	8.65	0.35	500	9	12	<100	UCAR™ Latex 651 is a 100% acrylic latex developed for a variety of coatings applications. The versatility of this high solids vehicle makes it suitable for a wide range of high solids, high build coatings, including block fillers and barrier coatings. UCAR™ Latex 651 is a preferred choice for athletic surface coatings such as tennis courts.
UCAR™ Latex 657	Acrylic	58	9	8.9	0.3	500	16	14	<100	UCAR™ Latex 657 is a high solids binder that can be formulated into coatings for masonry, interior wall paints and exterior architectural coatings that display an excellent balance of cost and performance.
SNAP™ 720	Structured Nano-particle Acrylic Polymer	49	7	8.9	0.08	<500	0	NA	0	SNAP™ 720 is a structured nano-particle acrylic polymer for high gloss coatings applications. This 100% acrylic latex features excellent gloss and adhesion. SNAP™ 720 offers outstanding block resistance in low or zero VOC high gloss coatings. With an ammonia-free composition, SNAP™ 720 is an excellent choice for low odor systems.

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Industrial Coatings

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	Minimum Filming Temperature (°C)	Glass Transition Temperature (midpoint °C)	Latex Type	Functionality	Typical Industrial Applications
UCAR™ Latex 449	Vinyl Acrylic	55	5.5	9.1	0.4	100	11	22	Strippable		Temporary strippable protective coatings
NEOCAR® Acrylic 820	NEOCAR® Acrylic	45	8.5	8.5	0.07	150	17	20	Thermoplastic		Hardboard edge sealers, sealers for masonry surfaces
NEOCAR® Acrylic 850	NEOCAR® Acrylic	45	8.5	8.7	0.07	150	45	50	Self-crosslinking, ambient cure		Wood, masonry, and metal
NEOCAR® Acrylic 7660	NEOCAR® Acrylic	48	8	8.7	0.13	300	21	24			Corrosion resistant primers
UCAR™ Latex 443	Styrene Acrylic	41	7	8.7	0.15	600	30	38	Thermoplastic		Multi-purpose and general metal
UCAR™ Latex 451	Styrene Acrylic	42	8.5	8.8	0.3	150	40	45	Crosslinkable	Carboxyl/Hydroxyl	Coil topcoats
UCAR™ Latex 452	Styrene Acrylic	44	8	8.7	0.3	150	20	24	Crosslinkable	Carboxyl/Hydroxyl	Coil primers
UCAR™ Latex 455	Styrene Acrylic	45	4.2	8.9	0.3	60	22	28	Self-crosslinking thermoset		Hardboard, concrete
UCAR™ Latex DL215	Styrene Butadiene	49	7.8	8.6	0.1	200	NA	39	Styrene Butadiene		Primers
UCAR™ Latex DL313	Styrene Butadiene	49	8.5	8.6	0.1	300	NA	-1	Styrene Butadiene		Primers
UCAR™ Latex DM171	Styrene Butadiene	50	8.3	8.4	0.17	150	NA	-10	Styrene Butadiene		Anti-corrosive OEM automotive underbody primers.
UCAR™ Latex 435	Acrylic	45	8.2	8.7	0.25	60	13	19	Thermoplastic	Carboxyl	Maintenance and marine coatings
UCAR™ Latex 441	Acrylic	45	7	8.7	0.15	600	18	23	Strippable	Carboxyl	Temporary strippable protective coatings

Traffic Paints

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	Minimum Filming Temperature (°C)	Glass Transition Temperature (midpoint °C)	Conventional Dry	Fast Dry-Standard	Fast Dry-High Build Durable	Low Temperature Capability
UCAR™ Latex DT 100	Acrylic	60	9	8.8	0.23	700	9	13	x			
UCAR™ Latex DT 211	Acrylic	50.5	3	8.7	0.2	300	17	24		x		
UCAR™ Latex DT 250	Styrene Acrylic	50.5	4	8.6	0.2	300	19	24		x		x
UCAR™ Latex DT 400	Styrene Acrylic	50.5	5	8.7	0.2	300	18	23			x	

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Specialty Coatings

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	Minimum Filming Temperature (°C)	Glass Transition Temperature (midpoint °C)	Suggested Uses
NEOCAR® Acrylic 820	NEOCAR® Acrylic	45	8.5	8.5	0.07	150	17	20	Sealers, stains
NEOCAR® Acrylic 850	NEOCAR® Acrylic	45	8.5	8.7	0.07	150	47	50	Sealers, floor coatings
NEOCAR® Acrylic 7660	NEOCAR® Acrylic	48	8	8.7	0.13	300	21	24	Corrosion resistant primers
UCAR™ Latex DM99	Styrene Acrylic	42	7.5	8.6	0.1	600	31	46	Direct to metal
UCAR™ Latex DM109	Styrene Acrylic	47	8	8.6	0.13	600	30	40	Direct to metal
UCAR™ Latex 123	Styrene Acrylic	60	8.5	8.9	0.5	200	0	-17	Elastomerics
UCAR™ Latex DM166	Styrene Acrylic	41	7.5	8.6	0.09	250	27	37	Direct to metal
UCAR™ Latex 3176A	Styrene Acrylic	50	8	8.9	0.2	300	0	-7	Elastomerics
UCAR™ Flex Latex 3186	Styrene Acrylic	50	8	8.9	0.2	300	0	-7	Elastomerics
UCAR™ Latex 9176	Styrene Acrylic	61	8	8.65	0.35	500	0	-21	Elastomerics
UCAR™ Latex DL215	Styrene Butadiene	49	7.8	8.6	0.1	200	NA	39	Sanding sealers, moisture vapor barrier
UCAR™ Latex DL313	Styrene Butadiene	49	8.5	8.6	0.1	300	NA	-1	Moisture vapor barrier
UCAR™ Latex 156	Acrylic	60	8	8.9	0.45	150	0	-18	Elastomerics
UCAR™ Flex Latex 187	Acrylic	60	8	8.9	0.45	150	0	-18	Elastomerics
UCAR™ Latex 627	Acrylic	43.5	7.5	8.8	0.1	550	9	15	Primers
UCAR™ Latex 651	Acrylic	65	9.1	8.65	0.35	500	9	12	Sports surface coatings

Pressure Sensitive Adhesives

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	180° Peel, 30 minute dwell, (pli)	1/2" x 1/2" x 500g Shear resistance on stainless steel (hours)	Film Substrates	Paper Substrates	Excellent Adhesion to Low Energy Surfaces
UCAR™ Latex 9037	Acrylic	51.5	9	8.5	0.3	450	2.2	8	x	x	
UCAR™ Latex 9042	Acrylic	55.5	9	8.6	0.3	500	4	10	x	x	x
UCAR™ Latex 9043	Acrylic	53	6.5	8.6	0.3	175	2	10	x		x
UCAR™ Latex DP 9046	Acrylic	51.5	9	8.6	0.3	250	4	4	x	x	
UCAR™ Latex 9165	Acrylic	52	9	8.6	0.3	300	3	20	x	x	
UCAR™ Latex 9285	Styrene Acrylic	50	8	8.6	0.3	280	3.5	24	x		
UCAR™ Latex 9290	Acrylic	50	8	8.6	0.4	100	4	5	x	x	x
UCAR™ Latex 9291	Acrylic	54	5	8.6	0.45	50	4.5	10	x		x
UCAR™ Latex 9569	Acrylic	57.5	6.5	8.6	0.35	900	3.7	0.75	x	x	x

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Sealants and Construction Products

Product	Chemistry	Solids (%)	pH Value	Latex Weight per Gal, Lb	Particle Size, Microns	Viscosity (cP)	Minimum Filming Temperature (°C)	Glass Transition Temperature (midpoint °C)	Description
UCAR™ Latex 162	Vinyl Acrylic	55	4.5	8.9	0.3	400	3	7	UCAR™ Latex 162 is a high-acrylate, vinyl acrylic copolymer latex that can be formulated into caulks that are not required to pass the performance standards of ASTM C-834 or ASTM C-920.
UCAR™ Latex 3560	Vinyl Acrylic	60	4.7	9.2	0.25	500	11	22	UCAR™ Latex 3560 is a high solids vinyl acrylic latex designed for patch and repair applications as well as tape joint compound.
UCAR™ Latex DC3878	Vinyl Acrylic	56.5	5	9.1	0.3	500	12	23	UCAR™ Latex DC3878 is recommended for dust control applications.
UCAR™ 145	Styrene Acrylic	48	8	8.7	0.15	120	29	32	UCAR™ Latex 145 is a styrene-acrylic emulsion polymer. Its combination of high molecular weight and hydrophobic nature provides an economical vehicle for such diverse applications as spackling compounds, tile adhesives, and exterior insulation adhesives.
UCAR™ Latex 169S	Styrene Acrylic	62.5	6	8.6	0.4	200	0	-22	UCAR™ Latex 169S was developed as a binder for high-performance clear and pigmented sealants. It combines exceptional stress-strain properties with a low Tg to provide the elasticity required to meet the performance standards of ASTM C-920 when properly formulated.
UCAR™ Latex 9176	Styrene Acrylic	61	8	8.65	0.35	500	0	21	UCAR™ Latex 9176 features an ambient crosslinking mechanism for enhanced adhesion and film integrity. It is recommended for high performance sealants.
UCAR™ Latex 154S	Acrylic	60	4.5	9	0.4	300	0	-4	UCAR™ 154S is a versatile acrylic binder for a wide range of adhesive and sealant applications.
UCAR™ Latex 163S	Acrylic	58	4	8.9	0.4	200	0	-11	UCAR™ Latex 163S is a high solids, all-acrylic binder for high-performance caulks, sealants, and elastomeric coatings. UCAR™ Latex 163S combines excellent adhesion properties, high pigment binding capacity, and excellent exterior durability. Properly formulated sealants based on UCAR™ Latex 163S are capable of passing the requirements of ASTM C-920.
UCAR™ Latex 412	Acrylic	47	6	8.8	0.4	50	11	13	UCAR™ Latex 412 is an ammonia-free acrylic emulsion polymer specifically developed for use in the polymer modification of portland cement and other hydraulic cement compositions. It is an excellent choice for EIFS basecoats and topcoats.
UCAR™ Latex 413	Acrylic	47	9	8.8	0.4	50	11	13	UCAR™ Latex 413 is an acrylic emulsion polymer specifically developed for use in the polymer modification of portland cement and other hydraulic cement compositions. It is an excellent choice for EIFS basecoats and topcoats.
UCAR™ Latex 446	Acrylic	62	6	8.8	0.3	550	6	12	UCAR™ Latex 446 is a very low surfactant acrylic latex for use in various construction and adhesive applications. It is useful in applications such as water-resistant construction adhesives, barrier coatings and cement admixtures.
UCAR™ Latex 9192	Acrylic	66	4	8.9	NA	600	0	0	UCAR™ Latex 9192 is a high solids, all-acrylic binder for “true clear” sealant applications. This polymer offers excellent clarity and resistance to yellowing upon aging.

Coatex Dispersants

Product	Chemistry	Solids (%)	Cation	Low VOC	APEO free	Characteristics	Applications
COADIS™ 123 K	Copolymer	24	K+	•	•	Excellent water resistance; mineral and organic pigments	Water resistant flat paint and textured coatings; gloss and semi-gloss paints; dispersion of organic pigments
COADIS™ BR 40	Copolymer	40	K+	•	•	Excellent water resistance; oxides and pigments (TiO_2, Fe_2O_3, ZnO)	Gloss and semi-gloss paints
ECODIS™ P 30	Polyacrylate	42	Na+	•	•	Versatile dispersant ($CaCO_3$, TiO_2)	Semi-gloss and matte paints
ECODIS™ P 50	Polyacrylate	40	Na+	•	•	High efficiency and robustness	Interior; high PVC matte paints
ECODIS™ P 90	Polyacrylate	40	NH_4+	•	•	High water resistance; high efficiency dispersant	Versatile dispersant; ideal for exterior paints

Coatex Thickeners

Product	Chemistry	Solids (%)	Low VOC	APEO free	Rheological profile	Characteristics	Applications
VISCOATEX™ 730	ASE	30	•	•	Pseudoplastic	Very effective; stability of high PVC formulations; anti-sagging properties; alone or in combination	Interior matte paints; thick film coatings; high strength adhesives; textured coatings
THIXOL™ 53 L	ASE	30	•	•	Pseudoplastic Thixotropic	Real thixotropic effect; improved compromise between levelling and sagging: a better levelling without sagging	Thick film coatings; textured coatings; pigment pastes; woodstains, spray application
RHEOTECH™ 2800	HASE	30	•	•	Newtonian to balanced	Outstanding appearance and creaminess to paints; remarkable properties to tinting systems, application comfort; improved sag/leveling compromise; easy finishing touches (touch up); good water resistance	Semi-gloss paints; one coat matte paints
RHEOTECH™ 3800	HASE	30	•	•	Balanced to pseudoplastic	Outstanding medium shear behavior; outstanding behavior towards coloring; improved sag/leveling compromise; easy finishing touches; good water resistance	Matte and semi-matte paints
RHEOTECH™ 4800	HASE	30	•	•	Pseudoplastic	High performance, attractive cost/performance ratio; outstanding application comfort; remarkable properties to tinting systems; improved sag/leveling compromise; easy finishing touches; good water resistance	Matte paints; thick film and textured coatings
POLYPHOBE® TR-115	HASE	40	•		Pseudoplastic	Most efficient of the TR series for building Stormer viscosity	Cost effective tool for high PVC paints
POLYPHOBE® TR-116	HASE	40	•		Balanced	Provide outstanding combination of Stormer and ICI efficiency	Excellent alternative to HMHEC with economic and performance advantages
POLYPHOBE® TR-117	HASE	40	•		Newtonian	Highly effective at building high shear viscosity	Primary thickener in small particle size latexes or auxiliary thickener to improve film build; improvements on film properties such as stain resistance and washability
COAPUR™ 2025	HEUR	25	•	•	Newtonian	Excellent levelling	Gloss & semi-gloss paints; lacquers and varnishes, matte paints (combined with another thickener)
COAPUR™ XS 22	HEUR	25*	•	•	Newtonian	Optimized balance between high, medium and low shear viscosities	Specific thickener for alkyd emulsion systems
COAPUR™ 3025	HEUR	25	•	•	Newtonian	Excellent film build; excellent spatter resistance; improved levelling	Gloss & semi-gloss paints; matte paints combined with another thickener; anti-corrosion paints
COAPUR™ 817 W	HEUR	17.5*	•	•	Balanced	High reactivity towards most of the solvent free and solvent containing binders	Gloss & semi-gloss paints; matte paints combined with another thickener; anti-corrosion paints
COAPUR™ XS 71	HEUR	17.5*	•	•	Balanced to pseudoplastic	Highly effective at low shear rates	Excellent pigment compatibility; ideal for tinting machine
COAPUR™ 6050	HEUR	50	•	•	Pseudoplastic	High thickening efficiency for low shear rate	Flat and semi-gloss paints; sole or in combination

* active content

In addition to emulsion systems, Arkema offers a wide range of products for the formulator.

Arkema Acrylic Monomers
Acrylic monomers, sold under the registered trademark of Norsocryl®, are used in the manufacture of paints, coatings, UV curable resins, super absorbent polymers (SAP), paper chemicals, water treatment flocculants, textiles, and impact modifiers for plastics. Arkema is one of the global market leaders in the production of glacial acrylic acid (GAA) and butyl acrylate (BA). Arkema offers a range of specialty monomers to enhance polymer performance.

Coatex
Coatex is one of the world's leading producers of rheological additives for aqueous formulations. Coatex's high-performance additives are used all around the world in a wide variety of applications, including mineral processing, paper, construction, detergency, paints and coatings and other industrial specialties.

Coatex's rheological expertise plays a major role in formulating high-performance polymers. Based on its expertise in rheology and its understanding of coating technologies, Coatex offers the paint and coatings industry an extensive range of products for coatings applications, and develops innovative solutions to help its customers switch from solvent-based to waterborne coatings.

Coatex's trademark portfolio includes COAPUR™ (HEUR), solvent free and heavy metal free urethane thickeners; ECODIS™, acrylic dispersing agents; RHEOTECH™, acrylic associative thickeners combining differentiated rheology performance with excellent eco-profiles; and POLYPHOBE®, a well known range of modifiers including the tailored rheology series, specifically designed for its rheological profile combined with high solids content.

These technologies are available from Coatex on a worldwide basis.

Kynar® and Kynar Aquatec® PVDF Resins
For over 40 years, finishes based on Kynar 500® PVDF resin have helped protect commercial, industrial, and residential buildings around the world. Kynar 500® is a special grade of PVDF resin used by licensed industrial paint manufacturers as the base resin in long-life coatings for aluminum, galvanized steel, and aluminized steel. Applications include metal roofing and siding, window and door frames, curtain wall and other miscellaneous metal trim and components.

Now you can get that famous, long-lasting Kynar® finish and you can apply it yourself – in the field or in the factory. Innovative technology has produced acrylic-modified Kynar® PVDF resin in a convenient emulsion. VOC-compliant, liquid coatings formulated with Kynar Aquatec® emulsions can be easily applied to metals, PVC, textiles and elastomers and deliver the durability and performance you've come to expect from traditional PVDF coatings, including the now famous Kynar 500®- based coating.

Arkema Nanostructured Polymers
BlocBuilder® for controlled radical polymerization applications, and Nanostrength® self-assembling block copolymer products, offer proven benefits for many industries and applications including, thermoplastics and thermosets, adhesives, acrylic and epoxy coatings, dispersing agents and polymeric stabilizers, additives for oils and lubricants, hydrophilic additives, and encapsulation and controlled release of active compounds.

For more information, please visit www.arkema.com

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The product data provided in this document are typical values, intended only as guides, and should not be construed as sales specifications.

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