



PATCHAM

ADDITIVES FOR COATINGS AND INKS

A sustainable approach to coating technology

The background features a paintbrush with a wooden handle and a blue ferrule, applying a thick layer of green paint to a globe of the Earth. The globe is tilted, showing the Americas. Overlaid on this scene is a complex, glowing yellow molecular structure with several spherical nodes connected by thin rods. The overall color palette is warm, dominated by yellows and oranges, with the green of the paint and the blue of the globe's sky and oceans providing contrast.

**Dispersing
Additives**

**Wetting
Additives**

Defoamers

**Surface
Modification
Additives**

**Rheology
Modifiers**

A Sustainable Approach to Coating Technology

Patcham FZC is a global manufacturer of specialty additives headquartered in the United Arab Emirates. Since its inception, Patcham has steadily grown to become a leading supplier of metal carboxylates and specialty additives for Paint & Coatings, Inks, PVC, Composites, Polyurethane and Oil field. We also manufacture a range of tin based and tin free catalysts for various end use industries.

The company's Pat-Add range of coating additives are built on providing attributes meeting actual demands on sustainability, technology, performance and competitiveness.

Patcham has a strong manufacturing and R&D infrastructure that enables rapid transition from concept to products. The company has strategically located technical service laboratories, offices, and representatives around the world to provide efficient customer service. In addition, a well-developed robust supply chain network enables us to deliver our products and services to customers around the globe with minimal lead-time.

Wetting and Dispersing Additives

Waterborne Systems

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for				Features & Benefits	
						Aqueous Systems		Decorative	Industrial		Colorants
				(Approx)		Emulsions	Amine Neutr.				
Pat-Add DA 103	Sodium salt of polyelectrolyte	Water	45%			■	□	■			Standard dispersant for inorganic pigments and fillers for emulsion formulations.
Pat-Add DA 105A	Ammonium salt polyelectrolyte	Water	43%			■		■			Dispersing agent for inorganic pigments and extenders.
Pat-Add DA 107A	Ammonium salt polyelectrolyte	Water	21%			■		■			Dispersing agent for inorganic pigments and extenders.
Pat-Add DA 108	Sodium salt copolymer	Water	25%			■	■	■	■		Hydrophobic copolymer dispersant for improving water resistance. For slurries containing basic fillers and pigments.
Pat-Add DA 202	APEO-free non-ionic wetting agent	Water	72%			■	■	■			APEO-free non-ionic pigment wetting agent. For all waterborne applications.
Pat-Add DA 203	APEO-free non-ionic wetting agent		100%			■	■	■			APEO-free polymeric surface active agent for WB in-plant tinting colorants.
Pat-Add DA 205	APEO-free non-ionic wetting agent		100%			■	■	■	■	■	APEO-free polymeric surface active agent, stronger hydrophobicity than Pat-Add DA 203. Strong stabilization of dispersed pigments and optimizes color development .
Pat-Add DA 209	APEO-free non-ionic wetting agent	Water	90%			■	■	■	■	■	APEO-free, for universal usage in dispersion paints and aqueous colorants.
Pat-Add DA 213	Non-ionic wetting agent	Water	90%			■	■	■	■	■	Standard wetting agent for emulsion paints.
Pat-Add DA 302	APEO-free non-ionic wetting agent	Water	35%			■	■	■		■	Economical wetting agent replacing APEO based surfactants. For good color acceptance in emulsion paints.
Pat-Add DA 401	Blockcopolymer	Water	28%			■	■	■	■	■	Highly effective dispersant for inorganic and moderately polar pigments, including carbon blacks, in aqueous systems.
Pat-Add DA 405	Polymeric with polyfunctional anchoring moieties	Water	40%			■	■	■	■	■	Polymeric dispersing agent with excellent performance in waterborne coatings and highly loaded pigment concentrates.
Pat-Add DA 420	Blockcopolymer	Water/Butyl Cellosolve	50%			■	■		■	■	For electrostatic stabilization of inorganic pigments for aqueous industrial systems.
Pat-Add DA 450	Branched polyacrylic copolymer	Water	40%			■	■	■	■	■	Wetting and dispersing additive for glycol free aqueous pigment dispersions.
Pat-Add DA 475	Polymeric with polyfunctional anchoring moieties	Water	40%			■	■	■	■	■	Dispersing agent for waterborne industrial, protective (DTM) coatings, pigment dispersions and printing inks.
Pat-Add DA 501	Polymeric uncharged	Water	80%			□	■		■	■	Wetting and dispersing agent for WB organic RMPC and RFPC. For Universal colorants used in conjunction with Pat-Add DA 801 or Pat-Add DA 861.
Pat-Add DA 603	HMV** Polymeric	Water	54%			■	■	■	■	■	APEO-free polymeric wetting and dispersing agent for all pigment dispersions. Used in a wide range of applications, architectural, textile and industrial paints.
Pat-Add DA 603LV	HMV** Polymeric	Water	54%			■	■	■	■	■	Low VOC and APEO-free polymeric wetting and dispersing agent for all pigment dispersions. Used in a wide range of applications, architectural, textile and industrial paints.
Pat-Add DA 801	Polymeric electroneutral		100%	86	40	□	■	■	■	■	Polymeric dispersant for Industrial Alkyd systems. Used with Pat-Add DA 501 for Universal Colorants.
Pat-Add DA 817	Polymeric slightly cationic		100%	13	21	□	■	■	■	■	Wetting and dispersing agent for SB and WB applications. Most suitable in waterborne systems with high filler loading, functional pigments, and inorganic pigments with high suspension property.
Pat-Add DA 825	Polymeric with unsaturated groups		100%	32	15	□	■	■	■	■	Solvent and VOC-free dispersant for universal colorants.
Pat-Add DA 861	Polymeric electroneutral		100%	97	40	□	■	■	■	■	Solvent and VOC-free dispersant for universal colorants along with Pat-Add DA 501. Suitable for all pigments, especially Carbon Blacks.

Wetting and Dispersing Additives

Solventborne and Solventfree Systems

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for							Features & Benefits
						Solventborne Systems			Decorative	Industrial	Colorants	Solventfree Systems	
						(Approx)	Non-Polar	Medium Polar					
Pat-Add DA 701	Amphoteric polyester dispersant	White Spirit	72%				■	■	□	■	□		Dispersant for inorganic pigments and fillers. Recommended for alkyd and alkyd modified systems.
Pat-Add DA 707	Amphoteric polyester dispersant	White Spirit	72%				■	■	□	■	□		Dispersant for inorganic pigments and fillers. Recommended for alkyd and alkyd modified systems. Low viscosity version of DA 701.
Pat-Add DA 801	Polymeric electroneutral		100%	86	40		■	■	■	■	■	■	Wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add 501. Recommended for Architectural and Industrial Coatings.
Pat-Add DA 801T	Polymeric electroneutral		100%	85	27		■	■	■	■	■	■	Wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add 501. Recommended for Architectural and Industrial Coatings.
Pat-Add DA 815	Electroneutral solventfree polymeric		100%	28	15		■	■	■		■	■	Polymeric wetting and dispersing additive that contains acidic group for effective wetting of inorganic pigments such as TiO ₂ , fillers and matting agents.
Pat-Add DA 895	Electroneutral solventfree polymeric		100%	29	13		■	■	■		■	■	Polymeric wetting and dispersing agent for acidic pigments including carbon black. Suitable for Epoxy, UPR, Polyol and PVC Colorants.
Pat-Add DA 932	HMV** Polymeric	Xylene/MPA	47%		15		□	■	□		■	■	HMV Technology polymeric wetting and dispersing agent for Industrial paints and solventborne pigment dispersions.
Pat-Add DA 934	HMV** Polymeric	Xylene/MPA	47%		13		□	■	□		■	■	HMV Technology polymeric wetting and dispersing agent for Industrial paints and solventborne pigment dispersions.
Pat-Add DA 947	HMV** Polymeric	Butyl Acetate	60%		18		□	■	■		■	■	HMV Technology polymeric wetting and dispersing agent. Coil coatings, Industrial paints and pigment dispersion. Xylene free.
Pat-Add DA 948	HMV** Polymeric		100%	2	38		□	■	■		■	■	HMV Technology wetting and dispersing additive for solventfree systems. Recommended for co-grinding Epoxy systems.
Pat-Add DA 1666	Polyamide-polyester electroneutral	Xylene / Isobutanol / Solvesso 100	55%	10	22		■	■	■	■	■		Wide range compatibility. Also provides self assembly structure for anti-settling properties.
Pat-Add DA 1676	Copolymer with organic acidic groups	Solvent Naptha	50%	37	32		■	■	■	■	■		Controlled flocculating wetting and dispersing additive for solventborne architectural and industrial paints.
Pat-Add DA 1801	Copolymer with organic acidic groups	Xylene/MPA	60%	70			■	■	■	■	■		Recommended for dispersion of inorganic pigments in particular titanium dioxide, matting agents, special effect pigments and fillers.
Pat-Add DA 1808	Electroneutral organic compound		100%		50		■	■	■	■	■	■	Wetting and dispersing additive for inorganic and polar pigments in alkyd paints, including Industrial coatings.
Pat-Add DA 1809	Copolymer with organic acidic groups	Xylene/MPA	60%	87			■	■	■	■	■		Recommended for dispersion of inorganic pigments, matting agents, special effect pigments and fillers.
Pat-Add DA 1812	Copolymer with organic acidic groups		100%	129			■	■	■	■	■		Recommended for dispersion of inorganic pigments in particular titanium dioxide, matting agents, special effect pigments and fillers.
Pat-Add DA 3051	HMV* - UCT Polymeric	Xylene/MPA	30%		6		■	■	■		■	■	Dispersing additive with cationic pigment affinic groups. Recommended for cogrinding baking systems.
Pat-Add DA 3054	HIA** Polymeric	Butyl Acetate	45%		25		■	■	■		■	■	Wetting and dispersing additive for organic and carbon black pigments in high performance coatings, Automotive OEM and Refinish. Suitable for RMPC and RFPC formulations.
Pat-Add DA 3223LV	HIA** Polymeric - solventfree		100%		53		■	■	■		■	■	Solventfree dispersant based on HIA Technology for preparing highly loaded pigment concentrates for high performance coatings, Automotive OEM and Refinish.
Pat-Add DA 3225	HIA** Polymeric - solventfree		100%		58		■	■	■		■	■	Solventfree dispersant based on HIA Technology for preparing highly loaded pigment concentrates in plasticizers and polyol-based systems.

■ Highly Recommended □ Recommended

** High Molar Volume, Patcham's unique technology

* High Molar Volume Ultra-Charge Technology, Patcham's unique technology

**Hyper Intermolecular Association Technology, Patcham's unique technology

The data in the product selector table is a first recommendation. Suitability of a product should always be checked in the actual paint, coating, or inks formulation.

Compatibilizer for Universal Colorants

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for					Features & Benefits
						Aqueous Systems		Decorative	Industrial	Colorants	
						Emulsions	Amine Neutr.				
Pat-Add DA 301	Anionic wetting agent	PG/Water	65%			■	■	■		■	Colorant compatibilizer for emulsion and SB alkyd paint bases.

Multi-functional Surfactants

Pat-Add SU 4	Nonionic surface active agents Available in various concentrations with below solvents: 1. Ethylene glycol 2. 2-Propanol 3. Propylene glycol 4. 2-Ethylhexanol 5. 2-Methoxymethylethoxypropanol (Ref: Product data sheet)					■	■	■	■	■	Provide simultaneous wetting and defoaming in inks, paints and adhesives.
Pat-Add SU 420	Polymeric wetting and dispersing agent		100%			■	■	■	■	■	Wetting and foam destabilizing characteristics for waterborne inks, paints and adhesives.
Pat-Add SU 440	Polymeric nonionic surface active agent		100%			■	■	■	■	■	For excellent wetting and dispersing properties in aqueous systems, with minimum foam.
Pat-Add SU 465	Polymeric nonionic surface active agent		100%			■	■	■	■	■	Substrate wetting agent with good solubility in aqueous systems. Suitable for waterborne coatings and inks
Pat-Add SU 485	Polymeric nonionic surface active agent		100%			■	■	■	■	■	Strong reduction of surface tension promotes substrate wetting with good solubility in aqueous systems. Suitable for waterborne coatings and inks

Controlled Flocculation Wetting and Dispersing Additives

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for										Features & Benefits	
						Aqueous Systems					Solventborne Systems						Solventfree Systems
						(Approx)		Emulsions	Amine Neutr.	Decorative	Industrial	Colorant	Non-Polar	Medium Polar	Polar		
Pat-Add C 7711	Polycarboxylic acid polymer	Xylene/DIBK	50%	130	-							■	■	■	■	■	Wetting and dispersing additive to prevent flooding and floatation of solvent free and medium to high polar solventbased coatings.
Pat-Add C 7711S	Polycarboxylic acid polymer with polysiloxane	Xylene/DIBK	50%	105	-							■	■	■	■	■	Wetting and dispersing additive that contains small amount of polysiloxane to prevent flocculation, floatation and improves surface slip and leveling.
Pat-Add C 7714	Polycarboxylic acid polymer	Water	50%	80	80	■	■	■									Wetting and dispersing additive to prevent flooding and floatation of waterborne coatings.

Defoamers

Waterborne Systems

Mineral Oil Defoamers

Product Name	Composition	Diluent/Solvent	Active content (%)	Emulsion paints, exterior wall paints	Amine Neutr.	Decorative	Industrial	Colorants	PVC Range	Features & Benefits
Pat-Add AF 11	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■			30-80	Standard mineral oil based defoamer for emulsion paints.
Pat-Add AF 14D	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■			30-80	Easy dispersible for emulsion paints.
Pat-Add AF 16	Mineral oil with hydrophobes	Mineral oil / water	54%	■	■	■			35-70	Economic version of Pat-Add AF 11.
Pat-Add AF 18	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■			40-70	For high PVC emulsion paints.
Pat-Add AF 21	Mineral oil with hydrophobes and polysiloxanes	Mineral oil	100%	■	■	■	■	■	20-80	APEO and VOC-free defoamer for waterborne paints, inks and pigment dispersions.
Pat-Add AF 24	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■	■	■	20-80	Recommended for high shear incorporation. For emulsion paints, inks and pigment dispersions.
Pat-Add AF 27*	Mineral oil with silica dispersion	Mineral oil	100%	■	■	■	■	■	20-80	Defoamer for waterborne emulsion paints, inks and pigment concentrates

Silicone-based Defoamers

Product Name	Composition	Diluent/Solvent	Active content (%)	Milling	Letdown	Post-Addition	Clearcoats	Pigmented	PVC Range	Features & Benefits
Pat-Add AF 31	Polydimethylsiloxane	PG/Butyl Carbitol	10%		■	■	■	□	0-25	For waterborne 2K PU, PUD and Acrylic clears.
Pat-Add AF 32	Polyether modified PDMS		100%		■	■	■	□	0-25	For VOC-free waterborne systems, Architectural, Industrial, Inks and Auto OEM.
Pat-Add AF 34	Polyether modified PDMS		100%	■	■	□	■	□	0-25	For waterborne 2K PU, PUD and Acrylic clears, high compatibility to clear systems.
Pat-Add AF 35	Polysiloxane		100%							Millbase defoamer for glycol based colorants, aqueous pigment concentrates, solventfree colorants and coatings
Pat-Add AF 38	Modified PDMS		100%	■				■	18-25	Highly effective to eliminate micro foam, also for airless application.
Pat-Add AF 39	Modified PDMS		100%	■	■	■	■	■	0-25	Highly effective to eliminate micro foam, also for airless application. Easy dispersible.
Pat-Add AF 310	Modified PDMS		100%	■	□		□	■	0-25	Deaeration for WB Industrial coatings.
Pat-Add AF 319	Modified PDMS	DPM	58%	■				■	18-25	Fast deaeration for PU and PU/Acrylate systems.
Pat-Add AF 330	Modified PDMS		100%	■	□		□	■	0-25	Suitable for pigmented high gloss emulsion systems. Also effective in removal of microfoam.
Pat-Add AF 331	Modified PDMS		100%	■				■	18-25	For PU and PU/Acrylates Systems. Effective for elimination of microfoams. Requires high shear incorporation.
Pat-Add AF 340	Modified PDMS	Water	30%	■	■			■	0-25	Defoamer for emulsion, good balance of effectiveness and compatibility.

Polymer-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Post-Addition	Clearcoats	Pigmented	PVC Range	Features & Benefits
Pat-Add AF 43	Polymeric		100%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-25	For waterborne Architectural, Wood and Industrial formulations.
Pat-Add AF 44	Polymeric		100%	<input checked="" type="checkbox"/>	0-25	Easy dispersible defoamer for waterborne Architectural, Wood and Industrial Formulations.				

Solventborne and Solventfree Systems

Silicone-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Clearcoats	Pigmented	Solventfree Systems	Features & Benefits
Pat-Add AF 35	Polysiloxane		100%			For pigment concentrates		<input checked="" type="checkbox"/>	Millbase defoamer for aqueous colorants, solventfree colorants and coatings.
Pat-Add AF 70	Polysiloxane	Odorless White spirit	5%	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Specifically for solventfree systems like epoxy and PU's.
Pat-Add AF 72	Fluoro modified polysiloxane	DIBK	1%	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Standard PDMS defoamer for all solventborne and solventfree systems.
Pat-Add AF 81	Polysiloxane	Isobutanol/ Solvesso 100	3%			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Strong air releasing functionality and leveling. Recommended for epoxy clear castings.
Pat-Add AF 90M	Organo-modified polysiloxane		100%	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Strong deaerator concentrate to eliminate macro - and microfoam. Suitable for high build, and high viscosity applications.
Pat-Add AF 174	Modified PDMS	DIBK	1%	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	PFAS-free defoamer and deaerator for solventborne coatings.
Pat-Add AF 183	Modified Polysiloxane	DIBK	0.70%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PFAS-free defoamer and deaerator for solventborne high gloss topcoats and clear coats.

Polymer-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Clearcoats	Pigmented	Solventfree Systems	Features & Benefits
Pat-Add AF 62	Polymeric	White spirit /butyl glycol	35%	<input checked="" type="checkbox"/>	Silicone and fluoro-free, recommended for Industrial Coatings and Inks. High compatibility for solventborne clearcoats.				
Pat-Add AF 64	Polymeric		100%	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Silicone and fluoro-free defoamer for solventfree polyurethanes and epoxy systems.
Pat-Add AF 86	Polymeric	Solvent Naphtha 100	25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Defoamer for wide variety of solventborne and solventfree systems.

Surface Modification Additives

Waterborne Systems

Product Name	Composition	Solvent	Active content (%)	Surface Slip	Substrate Wetting	Anti-Crater effect	Leveling	Anti-Blocking	Features & Benefits
Pat-Add LE 1019	Polyether modified polydimethylsiloxane		100%	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Excellent thermal stability, improved leveling and surface smoothness. Eliminates flooding and floating. Wide compatibility
Pat-Add LE 1023	Polyether modified polydimethylsiloxane		100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Universal solvent-free slip and leveling additive. Supports defoaming for a defect-free application.
Pat-Add LE 1030	Silicone surfactant	Butyl cellosolve	15%		<input type="checkbox"/>		<input checked="" type="checkbox"/>		Improves leveling and substrate wetting of aqueous coatings. No slip properties
Pat-Add LE 1034	Polyether modified polydimethylsiloxane	DPGME	52%		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		Strong reduction of surface tension which significantly improves substrate wetting and leveling. No slip properties
Pat-Add LE 1040	Silicone surfactant	Butyl cellosolve	15%		<input type="checkbox"/>		<input checked="" type="checkbox"/>		Improves leveling and substrate wetting of aqueous coatings. No slip properties.
Pat-Add LE 1433	Fluoro modified polyether polyester	DPM / Water	55%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Fluoro-based. Improves leveling, substrate wetting and anti-cratering properties.
Pat-Add LE 1075	Silicone and Fluoro- free organic polymer	Water	65%		<input checked="" type="checkbox"/>		<input type="checkbox"/>		PFAS-free. Excellent substrate wetting of properties for Wood and Industrial Coatings.
Pat-Add LE 1078	Interfacial active polymer	PG/Water	80%		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		PFAS-free. Excellent substrate wetting of properties for Wood and Industrial Coatings.
Pat-Add SL 1144	Polyether modified polysiloxane		100%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Excellent anti-blocking resistance, improves dirt pick-up resistance and surface slip for aqueous coatings
Pat-Add MA 2720	Polysiloxane based OH-functional polymer	Methoxypropanol/ Water	25%	<input checked="" type="checkbox"/>	Excellent anti-blocking properties, anti-graffiti, and dirt-pick up resistance. OH functionality.				

Solventborne / Solvent-free Systems

Product Name	Composition	Solvent	Active content (%)	Solventfree Systems	Surface Slip	Substrate Wetting	Anti-Crater System	Leveling	Anti-Blocking	Features & Benefits
Pat-Add FL 7	Polyacrylate	Butyl acetate	50%			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Silicone-free leveling agent with gloss improvement; suitable for solventborne clearcoats and pigmented systems.
Pat-Add FL 9	Polyacrylate	Butyl acetate	45%			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Silicone-free flow and leveling additive with air-release properties. Highly compatible. No impact on recoatability and intercoat adhesion
Pat-Add LE 1010	Polyether modified polydimethylsiloxane	Xylene	10%		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		General purpose leveling additive. For Wood and Architectural Coatings.
Pat-Add LE 1019	Polyether modified polydimethylsiloxane		100%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Excellent thermal stability, improved leveling and surface smoothness. Eliminates flooding and floating. Wide compatibility
Pat-Add LE 1020	Polyether modified polydimethylsiloxane	Xylene	10%		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		Improved surface slip and surface smoothness for solventborne coatings
Pat-Add LE 1023	Polyether modified polydimethylsiloxane		100%	<input checked="" type="checkbox"/>		Universal solvent-free slip, and leveling additive. Supports defoaming for a defect-free application.				
Pat-Add LE 1068	Polyether modified polydimethylsiloxane	D80	52%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Solvent-free systems leveling and substrate wetting. Supports elimination of flooding and floating for pigmented systems.
Pat-Add LE 1477	Fluoro modified polyacrylate	Butyl acetate	45%		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Excellent reduction of surface tension. Improves leveling, substrate wetting and anti-cratering properties.
Pat-Add LE 1777	Fluoro-free interfacial polymer siloxane modified	Butyl acetate	35%		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PFAS-free, direct replacement of fluoro-based, LE 1477. Improves leveling, substrate wetting, and anti-cratering of coatings.
Pat-Add SL 1120	Polyether modified polydimethylsiloxane	Butyl acetate	15%		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Increases slip and surface smoothness, scratch resistance and anti-blocking properties .
Pat-Add SL 1130	Polyether modified polysiloxane		100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOC-free. Increases slip and surface smoothness, scratch resistance and anti-blocking properties
Pat-Add SL 1134	Polyether modified polysiloxane		100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOC-free. Increases slip and surface smoothness, scratch resistance and anti-blocking properties
Pat-Add MA 2700	Polysiloxane based OH-functional polymer	Methoxypropyl acetate	25%		<input checked="" type="checkbox"/>	Excellent anti-blocking properties, anti-graffiti, and dirt-pick up resistance. OH functionality.				

Rheology Modifiers

Product Name	Composition	Solvent	Active content (%)	Incorporation		Viscosity Development at			Flow Behavior		Features & Benefits
				Post Addition	With High Shear	Low shear rate	Medium shear rate (KU)	High shear rate (ICI)	Pseudoplastic	Newtonian	
Pat-Add Rheol 99	HEUR	Water/ Propylene glycol	35%	■		□	■		■		HEUR based liquid associative thickener suitable for wide range of emulsion paints, pigment and extender slurries and colorants, with good flow and sag resistance properties.
Pat-Add Rheol 100	HEUR	Water/ Hexyl Carbitol	35%	■		□	■		■		VOC free version of Pat-Add Rheol 99.
Pat-Add Rheol 112	HEUR	Water	19.5%	■		■	■		■		VOC-free liquid rheology modifier for KU and low-shear viscosity control. Enhances anti-settling and stability in high-PVC waterborne coatings.
Pat-Add Rheol 117	HEUR	Water/ Butyl Triglycol	40%	■			■	□	■		VOC free HEUR thickener, for development of viscosity from mid to high shear. Prevents drastic viscosity drop on tinted bases.
Pat-Add Rheol 119W	HEUR	Water/ Butyl Carbitol	17.50%	■			■		■		HEUR-based rheology modifier for emulsion paints; delivers strong mid-shear and KU thickening with excellent flow, leveling, and film build, minimizing spatter and sag.
Pat-Add Rheol 125P	HEUR	Water/ Hexyl Carbitol	25%	■		□	■		■		HEUR based liquid associative thickener suitable for wide range of low-VOC emulsion paints; excellent Stormer viscosity (KU) builder.
Pat-Add Rheol 306	HEUR	Water	20%	■				■		■	ICI/High shear viscosity builder. Excellent compatibility with associative thickener - Rheol 100, Rheol 117 or Rheol 333.
Pat-Add Rheol 333	HEUR	Water	50%	■		□	■	□	■		VOC free HEUR thickener. Single component for broad spectrum of rheology profiles.

UPR Putty Additives

Product Name	Composition	Solvent	Active content (%)	Recommended for						Features & Benefits
				Solventborne Systems			Decorative	Industrial	Solventfree	
				Non-polar	Medium polar	Polar				
Pat-Add DA 2704	Unsaturated polyamides with acid polymers	Dearomatized White Spirit	52%			■	■	■	■	For dispersion of fillers such as calcium carbonate and aluminum trihydrate in UP and Epoxy-Vinyl resins. Reduces viscosity and dispersion time. Prevents settling of fillers.
Pat-Add DA 2708	Unsaturated polyamides with acid polymers	2-butoxyethanol	80%			■	■	■	■	For dispersion of fillers such as calcium carbonate and aluminum trihydrate in UP and Epoxy-Vinyl resins. Reduces viscosity and dispersion time. Prevents settling of fillers.
Pat-Add AF 75	Polymeric air releasing	Solvesso 100	38%	□	■	■	□	■	□	Prevents air entrapment in ambient temperature curing systems, composites and gelcoats.
Pat-Add Rheol 253	Organic polymer compound	Xylene/ Isobutanol / Solvesso 100	55%	□	□			■		Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.
Pat-Add Rheol 259	Organic polymer compound	Xylene/ Isobutanol / Solvesso 100	52%	□	□			■		Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.

Other Additives

Additives for water incorporation into SB Alkyd based systems

Product Name	Composition	Solvent	Active content (%)	Recommended for						Features & Benefits
				Solventborne Systems			Decorative	Industrial	Solventfree	
				Non-polar	Medium polar	Polar				
Pat-Add DA 786	Anionic compound	Water	38%	■	■	□	■	□		For incorporation of water into solventborne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.
Pat-Add DA 788	Anionic compound	Water	45%	■	■	□	■	□		For incorporation of water into solventborne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.

Coalescing Additives

Product Name	Composition	Diluent/Solvent	Active content (%)	Recommended for Aqueous Systems					Features & Benefits	
				Emulsion paints, exterior wall paints	Amine Neutr.	Decorative	Industrial	Colorants		
Pat-Add Coal 88	Non-ionic compound		100%	■		■	□			Efficiently supports film formation. Low odor, excellent scrub resistance and paint shelf stability.
Pat-Add Coal 91	Non-ionic compound		100%	■		■	□			Low VOC and biobased coalescing agent. Replaces traditional VOC contributing coalescent.

Flash Rust and Corrosion Inhibitors

Product Name	Composition	Diluent/Solvent	Active content (%)	Recommended for Aqueous Systems				Features & Benefits	
				Emulsion paints, exterior wall paints	Decorative	Industrial	Colorants		
Pat-Add RU 02	Aqueous solution of organic compounds	Water	30%	■	■	■	□		Liquid flash rust and corrosion inhibitor. Prevents in-can rust formation and improve corrosion resistance of paint films. Recommended for all types of waterborne systems.

Anti-Settling Additives

Product Name	Composition	Solvent	Active content (%)	Recommended for						Features & Benefits
				Solventborne Systems			Decorative	Industrial	Solventfree	
				Non-polar	Medium polar	Polar				
Pat-Add DA 831	Anionic compound	Water	36%	■	■	□	■	□		Provides anti-settling in highly filled solventborne systems. Recommended for pigments, extenders and matting agents.

Grinding Medium

Solventborne Systems

Product Name	Composition	Physical Form	Active Matter Content	Viscosity @25°C	Specific Gravity @25°C	Hydoxy Value	Properties and Applications
Pat-Grind 191	Fatty acid ester	Liquid	99-100%	<100cP	0.850 - 0.950	148-158 mg of KOH/gm	Excellent compatibility and solubility with diverse solventborne resins and solvents. Improves pigment wetting for superior dispersion and color strength. Versatile use as grinding vehicle for various high-performance coatings.



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Additive Selection Guide