



PATCHAM

ADDITIVES FOR COATINGS AND INKS

A sustainable approach to coating technology



**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)
				(Approx)	
Pat-Add DA 103	Sodium salt of polyelectrolyte	Water	45%		
Pat-Add DA 105A	Ammonium salt polyelectrolyte	Water	43%		
Pat-Add DA 107A	Ammonium salt polyelectrolyte	Water	21%		
Pat-Add DA 108	Sodium salt copolymer	Water	25%		
Pat-Add DA 202	APEO-free non-ionic wetting agent	Water	72%		
Pat-Add DA 203	APEO-free non-ionic wetting agent		100%		
Pat-Add DA 205	APEO-free non-ionic wetting agent		100%		
Pat-Add DA 209	APEO-free non-ionic wetting agent	Water	90%		
Pat-Add DA 213	Non-ionic wetting agent	Water	90%		
Pat-Add DA 302	APEO-free non-ionic wetting agent	Water	35%		
Pat-Add DA 401	Blockcopolymer	Water	28%		
Pat-Add DA 405	Polymeric with polyfunctional anchoring moieties	Water	40%		
Pat-Add DA 420	Blockcopolymer	Water/Butyl Cellosolve	50%		
Pat-Add DA 450	Branched polyacrylic copolymer	Water	40%		
Pat-Add DA 475	Polymeric with polyfunctional anchoring moieties	Water	40%		
Pat-Add DA 501	Polymeric uncharged	Water	80%		
Pat-Add DA 603	HMV** Polymeric	Water	54%		
Pat-Add DA 603LV	HMV** Polymeric	Water	54%		
Pat-Add DA 801	Polymeric electroneutral		100%	86	40
Pat-Add DA 817	Polymeric slightly cationic		100%	13	21
Pat-Add DA 825	Polymeric with unsaturated groups		100%	32	15
Pat-Add DA 861	Polymeric electroneutral		100%	97	40

■ Highly Recommended □ Recommended

** High Molar Volume, Patcham's unique technology

Recommended for					Features & Benefits
Aqueous Systems		Decorative	Industrial	Colorants	
Emulsions	Amine Neutr.				
■	□	■			Standard dispersant for inorganic pigments and fillers for emulsion formulations.
■		■			Dispersing agent for inorganic pigments and extenders.
■		■			Dispersing agent for inorganic pigments and extenders.
■	■	■	■		Hydrophobic copolymer dispersant for improving water resistance. For slurries containing basic fillers and pigments.
■	■	■			APEO-free non-ionic pigment wetting agent. For all waterborne applications.
■	■	■			APEO-free polymeric surface active agent for WB in-plant tinting colorants.
■	■	■	■	■	APEO-free polymeric surface active agent, stronger hydrophobicity than Pat-Add DA 203. Strong stabilization of dispersed pigments and optimizes color development .
■	■	■	■	■	APEO-free, for universal usage in dispersion paints and aqueous colorants.
■	■	■	■	■	Standard wetting agent for emulsion paints.
■	■	■		■	Economical wetting agent replacing APEO based surfactants. For good color acceptance in emulsion paints.
■	■	■	■	■	Highly effective dispersant for inorganic and moderately polar pigments, including carbon blacks, in aqueous systems.
■	■	■	■	■	Polymeric dispersing agent with excellent performance in waterborne coatings and highly loaded pigment concentrates.
■	■		■	■	For electrostatic stabilization of inorganic pigments for aqueous industrial systems.
■	■	■	■	■	Wetting and dispersing additive for glycol free aqueous pigment dispersions.
■	■	■	■	■	Dispersing agent for waterborne industrial, protective (DTM) coatings, pigment dispersions and printing inks.
□	■		■	■	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.
■	■	■	■	■	APEO-free polymeric wetting and dispersing agent for all pigment dispersions. Used in a wide range of applications, architectural, textile and industrial paints.
■	■	■	■	■	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.
□	■	■	■	■	Polymeric dispersant for Industrial Alkyd systems. Used with Pat-Add DA 501 for Universal Colorants.
□	■	■	■	■	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.
□	■	■	■	■	Solvent and VOC-free dispersant for universal colorants.
□	■	■	■	■	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)	Non-Polar
				(Approx)		
Pat-Add DA 701	Amphoteric polyester dispersant	White Spirit	72%			■
Pat-Add DA 707	Amphoteric polyester dispersant	White Spirit	72%			■
Pat-Add DA 801	Polymeric electroneutral		100%	86	40	■
Pat-Add DA 801T	Polymeric electroneutral		100%	85	27	■
Pat-Add DA 815	Electroneutral solventfree polymeric		100%	28	15	■
Pat-Add DA 895	Electroneutral solventfree polymeric		100%	29	13	■
Pat-Add DA 932	HMV** Polymeric	Xylene/MPA	47%		15	□
Pat-Add DA 934	HMV** Polymeric	Xylene/MPA	47%		13	□
Pat-Add DA 947	HMV** Polymeric	Butyl Acetate	60%		18	□
Pat-Add DA 948	HMV** Polymeric		100%	2	38	□
Pat-Add DA 1666	Polyamide-polyester electroneutral	Xylene / Isobutanol / Solvesso 100	55%	35	30	■
Pat-Add DA 1676	Copolymer with organic acidic groups	Solvent Naptha	50%	37	32	■
Pat-Add DA 1801	Copolymer with organic acidic groups	Xylene/MPA	60%	70		■
Pat-Add DA 1808	Electroneutral organic compound		100%		50	■
Pat-Add DA 1809	Copolymer with organic acidic groups	Xylene/MPA	60%	87		■
Pat-Add DA 1812	Copolymer with organic acidic groups		100%	129		■
Pat-Add DA 3051	HMV+ - UCT Polymeric	Xylene/MPA	30%		6	■
Pat-Add DA 3054	HIA** Polymeric	Butyl Acetate	45%		25	■
Pat-Add DA 3223LV	HIA** Polymeric - solventfree		100%		53	■
Pat-Add DA 3225	HIA** Polymeric - solventfree		100%		58	■

■ 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

Recommended for						Features & Benefits
Solventborne Systems		Decorative	Industrial	Colorants	Solventfree Systems	
Medium Polar	Polar					
■	□	■	□			Dispersant for inorganic pigments and fillers. Recommended for alkyd and alkyd modified systems.
■	□	■	□			Dispersant for inorganic pigments and fillers. Recommended for alkyd and alkyd modified systems. Low viscosity version of DA 701.
■	■	■	■	■	■	Wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add 501. Recommended for Architectural and Industrial Coatings.
■	■	■	■	■	■	Wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add 501. Recommended for Architectural and Industrial Coatings.
■	■		■	■	■	Polymeric wetting and dispersing additive that contains acidic group for effective wetting of inorganic pigments such as TiO ₂ , fillers and matting agents.
■	■		■	■	■	Polymeric wetting and dispersing agent for acidic pigments including carbon black. Suitable for Epoxy, UPR, Polyol and PVC Colorants.
■	□		■	■		HMV Technology polymeric wetting and dispersing agent for Industrial paints and solventborne pigment dispersions.
■	□		■	■		HMV Technology polymeric wetting and dispersing agent for Industrial paints and solventborne pigment dispersions.
■	■		■	■		HMV Technology polymeric wetting and dispersing agent. Coil coatings, Industrial paints and pigment dispersion. Xylene free.
■	■		■		■	HMV Technology wetting and dispersing additive for solventfree systems. Recommended for co-grinding Epoxy systems.
■	■	■	■			Wide range compatibility. Also provides self assembly structure for anti-settling properties.
■	■	■	■			Controlled flocculating wetting and dispersing additive for solventborne architectural and industrial paints.
■	■	■	■			Recommended for dispersion of inorganic pigments in particular titanium dioxide, matting agents, special effect pigments and fillers.
■	■	■	■	■		Wetting and dispersing additive for inorganic and polar pigments in alkyd paints, including Industrial coatings.
■	■	■	■			Recommended for dispersion of inorganic pigments, matting agents, special effect pigments and fillers.
■	■	■	■			Recommended for dispersion of inorganic pigments in particular titanium dioxide, matting agents, special effect pigments and fillers.
■	■		■	■		Dispersing additive with cationic pigment affinic groups. Recommended for cogrinding baking systems.
■	■		■	■		Wetting and dispersing additive for organic and carbon black pigments in high performance coatings, Automotive OEM and Refinish. Suitable for RMPC and RFPC formulations.
■	■		■	■	■	Solventfree dispersant based on HIA Technology for preparing highly loaded pigment concentrates for high performance coatings, Automotive OEM and Refinish.
■			■	■	■	Solventfree dispersant based on HIA Technology for preparing highly loaded pigment concentrates in plasticizers and polyol-based systems.

Compatibilizer for Universal Colorants

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)
				(Approx)	
Pat-Add DA 301	Anionic wetting agent	PG/Water	65%		

Multi-functional Surfactants

Pat-Add SU 4	<p>Nonionic surface active agents</p> <p>Available in various concentrations with below solvents:</p> <p>1. Ethylene glycol 2. 2-Propanol 3. Propylene glycol 4. 2-Ethylhexanol 5. 2-Methoxymethylethoxypropanol (Ref: Product data sheet)</p>				
Pat-Add SU 420	Polymeric wetting and dispersing agent			100%	
Pat-Add SU 440	Polymeric nonionic surface active agent			100%	
Pat-Add SU 465	Polymeric nonionic surface active agent			100%	
Pat-Add SU 485	Polymeric nonionic surface active agent			100%	

Controlled Flocculation Wetting and Dispersing Additives

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Aqueous Systems			
				(Approx)		Emulsions	Amine Neutr.	Decorative	Industrial
Pat-Add C 7711	Polycarboxylic acid polymer	Xylene/DIBK	50%	130	-				
Pat-Add C 7711S	Polycarboxylic acid polymer with polysiloxane	Xylene/DIBK	50%	105	-				
Pat-Add C 7714	Polycarboxylic acid polymer	Water	50%	80	80	■	■	■	

Recommended for					Features & Benefits
Aqueous Systems		Decorative	Industrial	Colorants	
Emulsions	Amine Neutr.				
■	■	■		■	Colorant compatibilizer for emulsion and SB alkyd paint bases.
■	■	■	■	■	Provide simultaneous wetting and defoaming in inks, paints and adhesives.
■	■	■	■	■	Wetting and foam destabilizing characteristics for waterborne inks, paints and adhesives.
■	■	■	■	■	For excellent wetting and dispersing properties in aqueous systems, with minimum foam.
■	■	■	■	■	Substrate wetting agent with good solubility in aqueous systems. Suitable for waterborne coatings and inks
■	■	■	■	■	Strong reduction of surface tension promotes substrate wetting with good solubility in aqueous systems. Suitable for waterborne coatings and inks

Recommended for							Features & Benefits
Colorant	Solventborne Systems					Solventfree Systems	
	Non-Polar	Medium Polar	Polar	Decorative	Industrial		
		■	■	■	■		Wetting and dispersing additive to prevent flooding and floatation of solvent free and medium to high polar solventbased coatings.
		■	■	■	■		Wetting and dispersing additive that contains small amount of polysiloxane to prevent flocculation, floatation and improves surface slip and leveling.
							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.
Pat-Add AF 11	Mineral oil with hydrophobes	Mineral oil	100%	■	■
Pat-Add AF 14D	Mineral oil with hydrophobes	Mineral oil	100%	■	■
Pat-Add AF 16	Mineral oil with hydrophobes	Mineral oil / water	54%	■	■
Pat-Add AF 18	Mineral oil with hydrophobes	Mineral oil	100%	■	■
Pat-Add AF 21	Mineral oil with hydrophobes and polysiloxanes	Mineral oil	100%	■	■
Pat-Add AF 24	Mineral oil with hydrophobes	Mineral oil	100%	■	■
Pat-Add AF 27*	Mineral oil with silica dispersion	Mineral oil	100%	■	■

Silicone-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown
Pat-Add AF 31	Polydimethylsiloxane	PG/Butyl Carbitol	10%		■
Pat-Add AF 32	Polyether modified PDMS		100%		■
Pat-Add AF 34	Polyether modified PDMS		100%	■	■
Pat-Add AF 35	Polysiloxane		100%		
Pat-Add AF 38	Modified PDMS		100%	■	
Pat-Add AF 39	Modified PDMS		100%	■	■
Pat-Add AF 310	Modified PDMS		100%	■	□
Pat-Add AF 319	Modified PDMS	DPM	58%	■	
Pat-Add AF 330	Modified PDMS		100%	■	□
Pat-Add AF 331	Modified PDMS		100%	■	
Pat-Add AF 340	Modified PDMS	Water	30%	■	■

■ Highly Recommended □ Recommended

*Check for regional restriction

Decorative	Industrial	Colorants	PVC Range	Features & Benefits
■			30-80	Standard mineral oil based defoamer for emulsion paints.
■			30-80	Easy dispersible for emulsion paints.
■			35-70	Economic version of Pat-Add AF 11.
■			40-70	For high PVC emulsion paints.
■	■	■	20-80	APEO and VOC-free defoamer for waterborne paints, inks and pigment dispersions.
■	■	■	20-80	Recommended for high shear incorporation. For emulsion paints, inks and pigment dispersions.
■	■	■	20-80	Defoamer for waterborne emulsion paints, inks and pigment concentrates

Post-Addition	Clearcoats	Pigmented	PVC Range	Features & Benefits
■	■	□	0-25	For waterborne 2K PU, PUD and Acrylic clears.
■	■	□	0-25	For VOC-free waterborne systems, Architectural, Industrial, Inks and Auto OEM.
□	■	□	0-25	For waterborne 2K PU, PUD and Acrylic clears, high compatibility to clear systems.
For pigment concentrates				Millbase defoamer for glycol based colorants, aqueous pigment concentrates, solventfree colorants and coatings
		■	18-25	Highly effective to eliminate micro foam, also for airless application.
■	■	■	0-25	Highly effective to eliminate micro foam, also for airless application. Easy dispersible.
	□	■	0-25	Deaeration for WB Industrial coatings.
		■	18-25	Fast deaeration for PU and PU/Acrylate systems.
	□	■	0-25	Suitable for pigmented high gloss emulsion systems. Also effective in removal of microfoam.
		■	18-25	For PU and PU/Acrylates Systems. Effective for elimination of microfoams. Requires high shear incorporation.
□	□	■	0-25	Compatible defoamer for emulsion, good balance of effectiveness and compatibility.

Polymer-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown
Pat-Add AF 43	Polymeric		100%	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pat-Add AF 44	Polymeric		100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Solventborne and Solventfree Systems

Silicone-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown
Pat-Add AF 35	Polysiloxane		100%		
Pat-Add AF 70	Polysiloxane	Odor less White spirit	5%	<input checked="" type="checkbox"/>	
Pat-Add AF 72	Fluoro modified polysiloxane	DIBK	1%	<input checked="" type="checkbox"/>	
Pat-Add AF 81	Polysiloxane	Isobutanol/ Solvesso 100	3%		
Pat-Add AF 90M	Organo-modified polysiloxane		100%	<input checked="" type="checkbox"/>	
Pat-Add AF 174	Modified PDMS	DIBK	1%	<input checked="" type="checkbox"/>	
Pat-Add AF 183	Modified Polysiloxane	DIBK	0.70%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Polymer-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown
Pat-Add AF 62	Polymeric	White spirit /butyl glycol	35%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pat-Add AF 64	Polymeric		100%	<input checked="" type="checkbox"/>	
Pat-Add AF 86	Polymeric	Solvent Naphtha 100	25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Post-Addition	Clearcoats	Pigmented	PVC Range	Features & Benefits
■	■	■	0-25	For waterborne Architectural, Wood and Industrial formulations.
■	■	■	0-25	Easy dispersible defoamer for waterborne Architectural, Wood and Industrial Formulations.

Clearcoats	Pigmented	Solventfree Systems	Features & Benefits
For pigment concentrates		■	Millbase defoamer for aqueous colorants, solventfree colorants and coatings.
	■	■	Specifically for solventfree systems like epoxy and PU's.
	■	□	Standard PDMS defoamer for all solventborne and solventfree systems.
■	□	■	Strong air releasing functionality and leveling. Recommended for epoxy clear castings.
	■	■	Strong deaerator concentrate to eliminate macro - and microfoam. Suitable for high build, and high viscosity applications.
	■	□	PFAS-free defoamer and deaerator for solventborne coatings.
■	■	□	PFAS-free defoamer and deaerator for solventborne high gloss topcoats and clear coats.

Clearcoats	Pigmented	Solventfree Systems	Features & Benefits
■	■	■	Silicone and fluoro-free, recommended for Industrial Coatings and Inks. High compatibility for solventborne clearcoats.
	■	■	Silicone and fluoro-free defoamer for solventfree polyurethanes and epoxy systems.
■	■	□	Defoamer for wide variety of solventborne and solventfree systems.

Surface Modification Additives

Waterborne Systems

Product Name	Composition	Solvent	Active content (%)	Surface Slip
Pat-Add LE 1019	Polyether modified polydimethylsiloxane		100%	<input type="checkbox"/>
Pat-Add LE 1023	Polyether modified polydimethylsiloxane		100%	<input checked="" type="checkbox"/>
Pat-Add LE 1030	Silicone surfactant	Butyl cellosolve	15%	
Pat-Add LE 1034	Polyether modified polydimethylsiloxane	DPGME	52%	
Pat-Add LE 1040	Silicone surfactant	Butyl cellosolve	15%	
Pat-Add LE 1433	Fluoro modified polyether polyester	DPM / Water	55%	<input checked="" type="checkbox"/>
Pat-Add LE 1075	Silicone and Fluoro- free organic polymer	Water	65%	
Pat-Add LE 1078	Interfacial active polymer	PG/Water	80%	
Pat-Add LE 1079	Interfacial active polymer	Water	80%	
Pat-Add SL 1144	Polyether modified polysiloxane	Water	100%	<input checked="" type="checkbox"/>

Solventborne / Solvent-free Systems

Product Name	Composition	Solvent	Active content (%)	Solventfree Systems	Surface Slip
Pat-Add FL 7	Polyacrylate	Butyl acetate	50%		
Pat-Add FL 9	Polyacrylate	Butyl acetate	45%		
Pat-Add LE 1010	Polyether modified polydimethylsiloxane	Xylene	10%		<input type="checkbox"/>
Pat-Add LE 1019	Polyether modified polydimethylsiloxane		100%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pat-Add LE 1020	Polyether modified polydimethylsiloxane	Xylene	10%		<input checked="" type="checkbox"/>
Pat-Add LE 1023	Polyether modified polydimethylsiloxane		100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pat-Add LE 1068	Polyether modified polydimethylsiloxane			<input checked="" type="checkbox"/>	
Pat-Add LE 1477	Fluoro modified polyacrylate	Butyl acetate	45%		<input checked="" type="checkbox"/>
Pat-Add LE 1777	Fluoro-free interfacial polymer siloxane modified	Butyl acetate	35%		<input checked="" type="checkbox"/>
Pat-Add SL 1120	Polyether modified polydimethylsiloxane	Butyl acetate	15%		<input checked="" type="checkbox"/>
Pat-Add SL 1130	Polyether modified polysiloxane		100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pat-Add SL 1134	Polyether modified polysiloxane	Methoxypropyl acetate	100%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pat-Add MA 2700	Polysiloxane based OH-functionality polymer		25%		<input checked="" type="checkbox"/>

Substrate Wetting	Anti-Crater effect	Leveling	Anti-Blocking	Features & Benefits
■	■	■		Excellent thermal stability, improved leveling and surface smoothness. Eliminates flooding and floating. Wide compatibility
■	■	■		Universal solvent-free slip and leveling additive. Supports defoaming for a defect-free application.
□		■		Improves leveling and substrate wetting of aqueous coatings. No slip properties
■		■		Strong reduction of surface tension which significantly improves substrate wetting and leveling. No slip properties
□		■		Improves leveling and substrate wetting of aqueous coatings. No slip properties.
□	■	■		Fluoro-based. Improves leveling, substrate wetting and anti-cratering properties.
■		□		PFAS-free. Excellent substrate wetting of properties for Wood and Industrial Coatings.
■	■	□		PFAS-free. Excellent substrate wetting of properties for Wood and Industrial Coatings.
■	■	□		PFAS-free. Superwetting properties for Wood and Industrial Coatings.
□	□	■	■	Excellent anti-blocking resistance, improves dirt pick-up resistance and surface slip for aqueous coatings

Substrate Wetting	Anti-Crater System	Leveling	Anti-Blocking	Features & Benefits
■	□	■		Silicone-free leveling agent with gloss improvement; suitable for solventborne clearcoats and pigmented systems.
■	□	■		Silicone-free flow and leveling additive with air-release properties. Highly compatible. No impact on recoatability and intercoat adhesion
■		□		General purpose leveling additive. For Wood and Architectural Coatings.
■	■	■		Excellent thermal stability, improved leveling and surface smoothness. Eliminates flooding and floating. Wide compatibility
■		■		Improved surface slip and surface smoothness for solventborne coatings
■	■	■		Universal solvent-free slip, and leveling additive. Supports defoaming for a defect-free application.
□	□	■		Solvent-free systems leveling and substrate wetting. Supports elimination of flooding and floating for pigmented systems.
■	■	■		Excellent reduction of surface tension. Improves leveling, substrate wetting and anti-cratering properties.
■	■	■		PFAS-free, direct replacement of fluoro-based, LE 1477. Improves leveling, substrate wetting, and anti-cratering of coatings.
□	□	□	■	Increases slip and surface smoothness, scratch resistance and anti-blocking properties .
□	□	□	■	VOC-free. Increases slip and surface smoothness, scratch resistance and anti-blocking properties
□	□	□	■	VOC-free. Increases slip and surface smoothness, scratch resistance and anti-blocking properties
■	■	■	■	Excellent anti-blocking properties, anti-graffiti, and dirt-pick up resistance. OH functionality.

Rheology Modifiers

Product Name	Composition	Solvent	Active content (%)	Incorporation	
				Post Addition	With High Shear
Pat-Add Rheol 99	HEUR	Water/ Propylene glycol	35%	<input checked="" type="checkbox"/>	
Pat-Add Rheol 100	HEUR	Water/ Hexyl Carbitol	35%	<input checked="" type="checkbox"/>	
Pat-Add Rheol 117	HEUR	Water/ Butyl Triglycol	40%	<input checked="" type="checkbox"/>	
Pat-Add Rheol 125P	HEUR	Water/ Hexyl Carbitol	25%	<input checked="" type="checkbox"/>	
Pat-Add Rheol 306	HEUR	Water	20%	<input checked="" type="checkbox"/>	
Pat-Add Rheol 333	HEUR	Water	50%	<input checked="" type="checkbox"/>	

UPR Putty Additives

Product Name	Composition	Solvent	Active content (%)	Solventborne	
				Non-polar	Medium polar
Pat-Add DA 2704	Unsaturated polyamides with acid polymers	Dearomatized White Spirit	52%		
Pat-Add DA 2708	Unsaturated polyamides with acid polymers	2-butoxyethanol	80%		
Pat-Add AF 75	Polymeric air releasing	Solvesso 100	38%	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pat-Add Rheol 253	Organic polymer compound	Xylene/ Isobutanol / Solvesso 100	55%	<input type="checkbox"/>	<input type="checkbox"/>
Pat-Add Rheol 259	Organic polymer compound	Xylene/ Isobutanol / Solvesso 100	52%	<input type="checkbox"/>	<input type="checkbox"/>

Other Additives

Anti-Settling Additives

Product Name	Composition	Solvent	Active content (%)	Solventborne	
				Non-polar	Medium polar
Pat-Add DA 831	Anionic compound	Water	36%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Viscosity Development at			Flow Behavior		Features & Benefits
Low shear rate	Medium shear rate (KU)	High shear rate (ICI)	Pseudoplastic	Newtonian	
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		VOC free version of Pat-Add Rheol 99.
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		VOC free HEUR thickener, for development of viscosity from mid to high shear. Prevents drastic viscosity drop on tinted bases.
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		HEUR based liquid associative thickener suitable for wide range of low-VOC emulsion paints; excellent Stormer viscosity (KU) builder.
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	ICI/High shear viscosity builder. Excellent compatibility with associative thickener - Rheol 100, Rheol 117 or Rheol 333.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		VOC free HEUR thickener. Single component for broad spectrum of rheology profiles.

Recommended for				Features & Benefits
Systems	Decorative	Industrial	Solventfree	
Polar				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Prevents air entrapment in ambient temperature curing systems, composites and gelcoats.
		<input checked="" type="checkbox"/>		Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.
		<input checked="" type="checkbox"/>		Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.

Recommended for				Features & Benefits
Systems	Decorative	Industrial	Solventfree	
Polar				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Provides anti-settling in highly filled solventborne systems. Recommended for pigments, extenders and matting agents.

Other Additives

Additives for water incorporation into SB Alkyd based systems

Product Name	Composition	Solvent	Active content (%)	Solventborne Systems	
				Non-polar	Medium polar
				Pat-Add DA 786	Anionic compound
Pat-Add DA 788	Anionic compound	Water	45%	■	■

Coalescing Additives

Product Name	Composition	Diluent/ Solvent	Active content (%)	Application	
				Emulsion paints, exterior wall paints	Amine Neutr.
Pat-Add Coal 88	Non-ionic compound		100%	■	
Pat-Add Coal 91	Non-ionic compound		100%	■	

Flash Rust and Corrosion Inhibitors

Product Name	Composition	Diluent/ Solvent	Active content (%)	Application
				Emulsion paints, exterior wall paints
Pat-Add RU 02	Aqueous solution of organic compounds	Water	30%	■

Recommended for				Features & Benefits
	Decorative	Industrial	Solventfree	
Polar				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		For incorporation of water into solventborne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		For incorporation of water into solventborne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.

Recommended for Aqueous Systems			Features & Benefits
Decorative	Industrial	Colorant	
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	<input type="checkbox"/>		Low VOC and biobased coalescing agent. Replaces traditional VOC contributing coalescent.

Recommended for Aqueous Systems			Features & Benefits
Decorative	Industrial	Colorant	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



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Additive Selection Guide