

Additives for Coatings and Inks



PATCHAM

>>> A SUSTAINABLE APPROACH TO MODERN COATING TECHNOLOGY

A Sustainable Approach to 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 and Polyurethane. 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 includes driers, wetting & dispersing agents, defoamers, slip & leveling agents, rheology modifiers. All our products are APEO free and many are produced from green raw materials. Several are designed to enable our customers to make products that are low VOC or VOC free.

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.



Additives for Waterborne Systems

Additive	Main application characteristics & composition	Active content (%)	Solvents	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for				
						Aqueous systems		Decorative	Industrial	Colorant
						Emulsions	Amine neutr.			
					(Approx)					

Wetting and Dispersing Agents

Pat-Add DA 103	Na salt of a polyelectrolyte. Dispersant for inorganic pigments and fillers for emulsion formulations.	45%	Water			■	□	■		■
Pat-Add DA 108	Hydrophobic co-polymer dispersant for improving water resistance. For slurries containing basic fillers and pigments.	25%	Water			■			■	
Pat-Add DA 202	APEO-free non-ionic pigment wetting agent. For all waterborne applications.	72%	Water			■	■	■		■
Pat-Add DA 203	Polymeric surface active agent for WB in-plant tinting colorants.	100%				■	■	■		■
Pat-Add DA 302	Economical wetting agent replacing APEO based surfactants. For good color acceptance in emulsion paints.	35%	Water			■	■		■	■
Pat-Add DA 401	A block copolymer additive for electrostatic stabilization of inorganic pigments for aqueous industrial systems.	28%	Water		33	■	■		■	■
Pat-Add DA 420	A block copolymer additive for electrostatic stabilization of inorganic pigments for aqueous industrial systems.	50%	Water/ Butyl cellosolve		84	■	■		■	■
Pat-Add DA 450	Branched polyacrylic polyester blocked copolymer wetting and dispersing additive. For glycol free aqueous pigment dispersions.	40%	Water			■	■	■	■	■
Pat-Add DA 501	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.	80%	Water			□	■		■	■
Pat-Add DA 603	Polymeric wetting and dispersing agent for all pigment dispersions. Used in a wide range of applications, architectural, textile and industrial paints.	54%	Water	16		■	■	■	■	■
Pat-Add DA 801	Polyester polymeric dispersant for Industrial alkyd systems. Used with Pat-Add DA 501 for POS Universal Colorants.	100%		45	50	□	■		■	■
Pat-Add DA 817	Wetting and dispersing agent for SB and WB applications. Most suitable in waterborne systems with properly passivated aluminum and effect pigments with high suspension property.	100%			82	■	■	■	■	■
Pat-Add DA 861	Solvent and VOC-free dispersant for universal colorant along with Pat-Add DA 501. Suitable for all pigments especially Carbon Blacks.	100%				□	■	□	■	■

Compatibilizer for Universal colorants

Pat-Add DA 301	Colorant compatibilizer for emulsion and SB alkyd paint bases. Anionic wetting agent.	65%	Water			■	■	■		■
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Multi-functional surfactants

Pat-Add SU 4	A series of nonionic surface active agents, provide simultaneous wetting and defoaming in inks, paints and adhesives.									
	Available in various concentrations with below solvents: 1. Ethylene glycol 4. 2-Methoxymethylethoxypropanol 2. 2-Propanol 5. 2-Ethylhexanol 3. Propylene glycol (Ref: Product data sheet)					■	■	■	■	■
Pat-Add SU 420	A polymeric wetting and dispersing agent with foam destabilizing characteristics for waterborne inks, paints and adhesives.	99%				■	■	■	■	■
Pat-Add SU 440	Nonionic surface active agent, for excellent wetting and dispersing properties in aqueous systems, with minimum foam.	99%				■	■	■		■

Additives for Waterborne Systems

Additive	Main application characteristics & composition	Appearance	Diluent/ solvent	Active Content	Recommended for				
					Aqueous systems		Decorative	Industrial	Colorant
					Emulsions	Amine neutr.			

Mineral Oil Defoamers

Pat-Add AF 11	Mineral oil defoamer with hydrophobes for waterborne paints, inks, and pigment dispersions.	Opaque dispersion	Mineral oil	100	■	■	■	■	■
Pat-Add AF 14D	Mineral oil defoamer with hydrophobes for waterborne paints and inks. Easy dispersible.	Opaque dispersion	Mineral oil	100	■	■	■	■	■
Pat-Add AF 16	Mineral oil defoamer with hydrophobes for waterborne paints, inks and pigment dispersions. Economic version of Pat-Add AF 11.	Opaque dispersion	Mineral oil/water	54	■	■	■	■	■
Pat-Add AF 18	Mineral oil defoamer with hydrophobes for waterborne paints, inks and pigment dispersions.	Opaque dispersion	Mineral oil	100	■	■	■	■	■
Pat-Add AF 21	Mineral oil defoamer with hydrophobes and polysiloxane for Universal Colorants and High PVC waterborne systems.	Opaque dispersion	Mineral oil	100	■	■	■	■	■

Silicone Defoamers

Pat-Add AF 31	Polydimethylsiloxane defoamer for waterborne 2K PU, PUD and Acrylic clears.	Clear liquid	PG/Butyl carbitol	10	■	■	■	■	■
Pat-Add AF 32	VOC-free polyether modified PDMS defoamer for waterborne systems, Architectural, Industrial, Inks and Auto OEM.	Clear liquid		100	■	■	■	■	■
Pat-Add AF 34	Polyether modified PDMS defoamer for waterborne systems, Architectural, Industrial, Inks and Auto OEM.	Hazy pale yellow liquid		100	■	■	■	■	■
Pat-Add AF 35	Polysiloxane based defoamer for aqueous, solvent-borne and solventfree systems.	Opaque dispersion		100		■		■	■

Polymer Defoamers

Pat-Add AF 43	Polymeric defoamer for waterborne Architectural, Wood and Industrial Formulations. Mineral Oil and PDMS free.	Opaque dispersion		100	■	■	■	■	■
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Rheology Modifiers

Pat-Add Rheol 99	HEUR based associative thickener (liquid) suitable for wide range of emulsion paints, pigment and extender slurries and colorants with good flow and sag resistance properties.	Sl. hazy liquid	Propylene glycol	35	■	■	■	■	■
Pat-Add Rheol 100	VOC free version of Pat-Add Rheol 99.	Milky white		35	■	■	■	■	■
Pat-Add Rheol 125 P	HEUR based associative thickener (liquid) suitable for wide range of low-VOC emulsion paints; excellent stormer viscosity (KU) builder.	Milky white		25	■	■	■	■	■

Leveling & Slip Additives

Pat-Add LE 1019	Leveling with slip. Polyether modified polysiloxane.	Clear liquid		100	■	■	■	■	■
Pat-Add LE 1030	Leveling and substrate wetting. Polyether modified polysiloxane.	Clear liquid	Butyl cellosolve	15	■	■	■	■	■
Pat-Add LE 1040	Leveling with slip; contributes to optimal matting agent and metallic pigment orientation. Polyether modified polysiloxane.	Clear liquid	Butyl cellosolve	15	■	■	■	■	■
Pat-Add LE 1433	Fluoro modified polyether polyester flow and leveling agent for industrial & wood coatings. Strong surface tension reducer for wetting and de-aeration.	Clear liquid	DPM/ Water	55	■	■	■	■	■
Pat-Add LE 1075	Silicone and fluoro free wetting and leveling agent for printing ink and paint formulations.	Clear liquid	Water	65	■	■	■	■	■

Additives for Solventborne Systems

Additive	Main application characteristics & composition	Active content (%)	Solvents	Acid value (mg KOH/g) (Approx)	Amine value (mg KOH/g)	Recommended for						
						Solventborne systems			Solvent free	Decorative	Industrial	Colorant
						Non polar	Medium polar	Polar				

Wetting and Dispersing Agents

Pat-Add DA 707	Amphoteric polyester dispersant for inorganic pigments and fillers. Recommended for alkyd and alkyd modified systems.	72%	White spirit	18		■	■	□		■			
Pat-Add DA 801	Anionic polyester wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add 501. Recommended for Architectural and Industrial Coatings.	100%		45	50	■	■	■	■	■	■	■	■
Pat-Add DA 815	Electroneutral solventfree polymeric wetting and dispersing additive. Contains acidic group for effective wetting of inorganic pigments such as TiO ₂ , fillers and matting agents.	100%		56	40	■	■	■	■			■	■
Pat-Add DA 817	Electroneutral wetting and dispersing additive that can provide anti sedimentation for aqueous Industrial paints.	100%			82	■	■	■	■			■	■
Pat-Add DA 895	Polymeric electroneutral wetting and dispersing additive for pigment dispersions in solventfree systems; UPR.	100%				■	■	■	■			■	■
Pat-Add DA 932	HMV Technology polymeric wetting and dispersing agent for Industrial paints and solvent-borne pigment dispersions.	47%	Xylene/MPA	15		□	■	□				■	■
Pat-Add DA 947	HMV Technology polymeric wetting and dispersing agent. Coil coatings, Industrial paints and pigment dispersion. Xylene free.	60%	Butyl acetate	18		□	■	■				■	■
Pat-Add DA 948	HMV Technology wetting and dispersing additive for solventfree systems. Recommended for co-grinding Epoxy systems.	100%		2	38	□	■	■	■			■	■
Pat-Add DA 1666	Polyamide-polyester backbone and electroneutral functionality for wide compatibility with Industrial solvent-borne paints. Also provides self assembly structure for anti-settling properties.	55%	Xylene/Isobutanol/Solvesso 100	20	20	■	■	■			■	■	
Pat-Add DA 1801	Anionic polyester wetting and dispersing additive with acidic groups. Recommended for dispersion of inorganic pigments, matting agents, special effect pigments and fillers.	60%	Xylene/MPA	60		■	■	■				■	
Pat-Add DA 1808	Hydroxy functional wetting and dispersing additive for polar pigments in alkyd Industrial coatings.	100%			67	■	■	■	■	■	■	■	■
Pat-Add DA 1814	Anionic dispersing agent for solvent-borne paints, inks and colorants.	50%	Xylene/MIBK	22	25	■	■			■	■		
Pat-Add DA 2025	Long chain polymeric acid ester for dispersion of inorganic pigments and extenders in PVC plastisol system.	100%								■		■	
Pat-Add DA 3051	HMV polymeric wetting and dispersing additive with cationic pigment affinic groups. Recommended for cogrinding baking systems.	30%	Xylene/MPA	6		□	■	□				■	■
Pat-Add DA 3204	HMV Ultra Charge Technology polymeric wetting and dispersing additive for dispersion of organic and carbon black pigments in high performance coatings, Automotive OEM and Refinish. Suitable for RMPC and RFPC formulations.	50%	Xylene			■	■	□				■	■
Pat-Add DA 3222	Solventfree dispersant based on HMV Ultra Charge Technology for preparing high loaded pigment concentrates in plasticizers and polyol-based compositions.	100%				■	■			■		■	■

Additives for Solventborne Systems

Additive	Main application characteristics & composition	Appearance	Active content (%)	Diluent/ solvent	Recommended for						
					Solventborne systems			Solvent free	Decorative	Industrial	Colorant
					Non-polar	Medium polar	polar				

Polymer / Silicone Defoamers

Pat-Add AF 35	Polysiloxane based defoamer for aqueous, solvent-borne and solventfree systems.	Opaque	100%						■		■	■
Pat-Add AF 61	Silicone and fluoro free polymeric defoamer for Wood coatings and stoving systems.	Clear liquid	35%	White spirit	■	■	■	□	■	■	■	■
Pat-Add AF 62	Silicone and fluoro free polymeric defoamer in organic solvent. Recommended for Industrial Coatings and Inks.	Clear liquid	35%	White spirit /butyl glycol	■	■	■	□	■	■	■	■
Pat-Add AF 70	Polysiloxane based defoamer with air-release functionality. For rapid defoaming in high film thickness coatings. Recommended for solvent-borne and solventfree coating systems.	Clear liquid	5%	Odor less White spirit	□	■	■	■	□	■	■	■
Pat-Add AF 72	Polysiloxane based defoamer for production, filling and application of solvent-borne coatings. Recommended for all solvent-borne and solventfree systems.	Clear liquid	1%	DIBK	■	■	■	■	■	■	■	■
Pat-Add AF 81	Polysiloxane defoamer with strong air releasing functionality and leveling. Recommended for epoxy clear castings.	Clear liquid	3%	Isobutanol/ Solvesso 100	□			■	□	■	■	■

Leveling & Slip Additives

Pat-Add LE 1010	Polyether modified siloxane based surface modifier. Recommended for leveling, slip of solvent-borne industrial coating systems.	Clear liquid	10%	Xylene	■	■	■				■	
Pat-Add LE 1019	Polyether modified siloxane surface modifier for solvent-borne, solventfree and waterborne systems. Improves substrate wetting, flow and leveling.	Clear liquid	99-100%		■	■	■	■	■	■	■	■
Pat-Add LE 1020	Linear polyether modified polysiloxane for solvent-borne Industrial and Automotive coatings.	Clear liquid	10%	Xylene	■	■	■	□			■	
Pat-Add LE 1066	Silicone modified polyester leveling additive. Slight defoaming activity in solvent-borne and solventfree Epoxy and PU systems. Recommended for Industrial, Protective and Floor coating applications.	Clear liquid	52%	Odorless	□	■	■	■			■	
Pat-Add LE 1070	100% active polyester based leveling additive for Industrial coatings. Recommended for baking systems.	Clear liquid	99-100%		□	■	■	■			■	
Pat-Add LE 1477	Oil and silicone free modified fluoro polyacrylate leveling and slip additive for solvent-borne systems. Short-chained structure designed to meet environment regulations for fluoro carbons. Recommended for Wood and Industrial Coatings.	Clear liquid	45%	Butyl acetate	■	■	■	■	■	■	■	■
Pat-Add SL 1120	Polyether modified polysiloxane for excellent slip and mar resistance. Highly recommended for clear coats in Wood and Industrial coatings.	Clear liquid	15%	Butyl acetate	□	■	■				■	

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Additive	Main application characteristics & composition	Appearance	Active content (%)	Diluent/ solvent	Recommended for						
					Solventborne systems			Solvent free	Decorative	Industrial	Colorant
					Non-polar	Medium polar	polar				

Flow and Leveling Additives

Pat-Add FL 7	Polyacrylate based flow and leveling additive with modified side chains for optimum compatibility. Recommended for all solvent-borne systems.	Clear liquid	50%	Butyl acetate				□	■	■	■	■
Pat-Add FL 9	Polyacrylate based flow and leveling additive with slight defoaming activity. Recommended for Coil, Industrial, Protective and Automotive Coatings.	Clear liquid	45%	Butyl acetate				□	■	■	■	■

Anti-Settling Additive

Pat-Add DA 831	Mixture of ionic materials to provide anti-settling of highly filled aqueous systems. Recommended for pigments, extenders and matting agents.	Clear liquid	36%	Water	■	■	□		■	□		
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Additive for water incorporation into SB alkyd based systems

Pat-Add DA 786	Proprietary blend of ionic materials for incorporation of water into solvent-borne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.	Clear liquid	38%	Water	■	■	□		■	□		
Pat-Add DA 787	VOC free, polyethylene glycol monoester based additive. Enables water incorporation into solvent-borne modified alkyd systems and bitumen based paints. Provides long term stability with no phase separation.	Clear liquid	100%		■	■	□		■	□		

Additives for UPR & Composites

Pat-Add DA 2702	Unsaturated polyamides with acidic groups for dispersion of fillers such as calcium carbonate and aluminum trihydrate in UP and Epoxy-Vinyl resins. Reduces viscosity and dispersion. Prevents settling of fillers.		80%	2-Butoxy ethanol				■	■	■	■	■
Pat-Add DA 2709	Fatty acid based polyester dispersing additive for dispersion of ATH in higher concentrations.		10%	Isobutanol/MPA				■	■	■		■
Pat-Add AF 75	Silicone free polymeric air releasing additive. Prevents air entrapment in ambient temperature curing systems, composites and gelcoats.		38%	Solvesso 100	□	■	■	■	■	□	■	
Pat-Add AF 76	Silicone free polymeric air releasing additive for UPR clear laminates and gelcoats. Prevents air entrapment without affecting the clarity of castings.	Clear liquid	6.5%	Solvesso 100	□	■	■	■	■	□	■	
Pat-Add LE 1065	Polyether modified polysiloxane for efficient surface tension modification. Recommended for UPR and Epoxy vinyl systems.	Clear liquid	50%	MPA	□	■	■	■			■	
Pat-Add Rheol 253	Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.	Clear liquid	55%	Xylene/Isobutanol/Solvesso 100	□	□		■			■	



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