

Additives for Coatings and Inks



PATCHAM

>>> A SUSTAINABLE APPROACH TO MODERN COATING TECHNOLOGY

A Sustainable Approach to Modern Coating Technology

Patcham FZC is a well-established manufacturer of specialty additives headquartered in the United Arab Emirates. Since its inception, Patcham has steadily grown into a leading supplier of specialty additives for the Paint & Coatings, Ink, PVC and Composite industries.

The company's Pat-Add range of coating additives includes wetting & dispersing agents, defoamers, slip & leveling agents, rheology modifiers. Whilst keeping focus on environmental sustainability, the company produces products using green raw materials that are APEO free and have low or no VOC.

These products are multi functional and multi compatible, which simplifies the production process, reduces the chance of errors and minimizes inventory thus improving cost effectiveness.

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

The Patcham Coating Additives portfolio includes a complete series of products for various applications. Next to the products as listed in this brochure, a tailor-made products -such as supplied in different solvents or concentrations- can be made available.



Additives for Waterborne Systems

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

Wetting and Dispersing Agents

Pat-Add DA 103	Multi-applicable dispersant for inorganic pigments, extenders. Polyelectrolyte, Na Salt.	45%	Water			■	□	■		■
Pat-Add DA 108	Dispersant for inorganic pigments, extenders. Hydrophobic co-polymer. Polyelectrolyte, Na Salt.	25%	Water							
Pat-Add DA 202	Pigment wetting agent for dispersion paints. Non-ionic, polymeric, surface active agent.	72%	Water			■	■	■		■
Pat-Add DA 203	Wetting agent for in-plant pigment concentrates. Non-ionic polymeric surface active agent.	100%				■	■	■		■
Pat-Add DA 302	Wetting and stabilization agent for pigment dispersion and optimizes color development. (Economic option against APEO)	35%				■	■		■	■
Pat-Add DA 401	Dispersant for polar inorganic pigment. Block copolymer, organic solvent free.	28%	Water		33	■	■		■	■
Pat-Add DA 420	Dispersant for polar pigments in industrial paints and RFPC. Block copolymer.	50%	Water/ Butyl cellosolve		84	■	■		■	■
Pat-Add DA 501	Wetting and dispersing agent for apolar pigments in industrial paints, graphic arts, RFPC. Polymeric; nonionic, organic solvent free.	80%	Water			□	■		■	■
Pat-Add DA 603	Polymeric wetting and dispersing agent for all types of pigment dispersions: RFPC & RMPC for architectural, industrial paints.	54%	Water	16						
Pat-Add DA 621	Dispersing agent to produce glycol as well as PEG and APE-free universal colorants, for tinting systems as applied to architectural emulsion paints and solvent borne alkyd paints. For phthalo blue and green, carbon black and main organic red pigments.	80%	Water			■	□	■	□	■
Pat-Add DA 801	Multi-purpose pigment wetting and dispersing agent, for colored pigments, in most industrial systems. Excellent wetting. Polyester, anionic.	100%		45	50	□	■		■	■
Pat-Add DA 817	Wetting & dispersing agent for wide variety of industrial coatings, inks & pigments dispersion. Works well with waterborne applications acts as anti-settling & anti-sedimentation agents.	100%			82	■	■	■	■	■
Pat-Add DA 861	VOC-free polymeric wetting and dispersing agent for universal colorants. Compatible with a wide range of non-polar and polar solventborne paint systems and effective dispersant for carbon black.	100%				□	■	□	■	■

Compatibilizer for Universal colorants

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

Pat-Add SU 4	A series of unique nonionic surface active agents, which provide both wetting and defoaming in the same product.			50% to 75%								
	Available as:											
	Pat-Add	Concentration	Solvent composition									
	Pat-Add SU 4 E	50	Ethylene glycol									
	Pat-Add SU 4 H	75	Ethylene glycol									
	Pat-Add SU 4 PA	50	2-Propanol									
Pat-Add SU 4 PG	50	Propylene glycol										
Pat-Add SU 4 DPM	50	2-Methoxymethylethoxypropanol										
Pat-Add SU 4 A	50	2-Ethylhexanol										
Pat-Add SU 420	Nonionic surface active agent, excellent wetting and dispersing properties in aqueous systems and a foam destabiliser. Lower water solubility as compared to Pat-Add SU 440.			99%			■	■	■	■	■	
Pat-Add SU 440	Nonionic surface active agent, which provides excellent wetting and dispersing features in aqueous systems, with minimum foam formation.			92%			■	■	■		■	

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	Multi-purpose, defoamer and anti-foaming agent in architectural dispersion paints. Dispersion of hydrophobes in a mineral oil compound	Opaque dispersion	Mineral oil	100	■	■	■	■	■
Pat-Add AF 14D	Easy dispersible grade. Dispersion of hydrophobes in a mineral oil compound, mainly for texture coating.	Opaque dispersion	Mineral oil	100	■	■	■	■	■
Pat-Add AF 16	For ease of dispersion, economics and accurate dosage. Dispersion of hydrophobes in a mineral oil compound.	Opaque dispersion	Mineral oil/water	54	■	■	■	■	■
Pat-Add AF 18	Mineral oil based defoamer for water borne paints, inks with good defoaming properties.	Opaque dispersion	Mineral oil	100	■	■	■	■	■
Pat-Add AF 21	Strong defoaming, easy incorporation, accurate dosage. Dispersion of hydrophobes in a mineral oil compound with polysiloxane.	Opaque dispersion	Mineral oil	100	■	■	■	■	■

Silicone Defoamers

Pat-Add AF 31	Easy incorporation. High film transparency. Solution of polysiloxane based defoaming ingredients.	Clear liquid	Butyl carbitol	10	■	■	■	■	■
Pat-Add AF 32	De-airing, combats microfoaming. Polysiloxane based polyether compound.	Clear liquid		100	■	■	■	■	■
Pat-Add AF 34	Incorporated with medium to high shear dispersion forces. Most suitable for industrial paint, flexo inks as well as pigment dispersions.	Hazy pale yellow liquid		100	■	■	■	■	■

Polymer Defoamers

Pat-Add AF 43	Defoamer and anti-foaming, maintaining optimal adhesion properties. Dispersion of hydrophobes in polymer, solvent free.	Opaque dispersion		100	■	■	■	■	■
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Rheology Modifiers

Pat-Add Rheol 99	Liquid rheology modifier suitable for all PVC range with good flow, stability, water resistance. PU associative thickener	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	Excellent low-mid shear viscosity builder. VOC free. PU associative thickener with good anti-settling, anti-sagging and reduces roller spattering .	Milky white		25	■	■	■	■	■

Leveling & Slip Additives

Pat-Add LE 1019	Leveling, with slip contribution. Polyether modified polysiloxane, 99-100%	Clear liquid		100	■	■	■	■	■
Pat-Add LE 1030	Leveling and substrate wetting. Polyether modified polysiloxane, approx. 15% polysiloxane.	Clear liquid	Butyl cellosolve	15	■	■	■	■	■
Pat-Add LE 1040	Leveling, with slip contribution; contributes to optimal matting agents and metal pigment orientation. Polyether modified polysiloxane, approx 15% polysiloxane.	Clear liquid	Butyl cellosolve	15	■	■	■	■	■
Pat-Add LE 1433	Flow and leveling agent for industrial, wood, OEM and repair clear and pigmented systems. Strong surface tension reducer, supports substrate wetting and de-aeration	Clear liquid	DPM/ Water	55	■	■	■	■	■
Pat-Add LE 1075	Silicone and fluoro free leveling agent and multipurpose interfacial tension modifier for use in printing ink and paint formulations. Efficient interfacial tension reducing additive for improving substrate wetting and pigment wetting.	Clear liquid	Water	65	■	■	■	■	■

Additives for Solventborne Systems

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

Wetting and Dispersing Agents

Pat-Add DA 701	Dispersant for inorganic pigments, extenders in SB paints, inks, plasticizers and colorants. Higher molecular weight polymer, for improved stabilization. Available lower viscosity version as Pat-Add DA 707	72%	White spirit	18		■	■	□		■			
Pat-Add DA 801	Multi-purpose pigment wetting agent and dispersant, for color pigments, in air-drying paints, RMPC and most industrial paint systems. Excellent wetting. Polyester, anionic.	100%		45	50	■	■	■	■	■	■	■	■
Pat-Add DA 815	Pigment wetting and dispersing agent, for color pigments, in RMPC and most industrial systems. Superior wetting, polymeric, electroneutral.	100%		56	40	■	■	■	■			■	■
Pat-Add DA 932	Widely accepted pigment dispersant for industrial paints and high concentrated RFPC, including carbon black. Polyurethane polymer, multi-anchoring. HMV polymer.	47%	Xylene/MPA		15	□	■	□				■	■
Pat-Add DA 934	Pigment dispersant for industrial paints, wood coatings, high concentrated RFPC. Polyurethane polymer, multi-anchoring. HMV polymer.	47%	Xylene/MPA		13	□	■	■				■	■
Pat-Add DA 947	Polymeric dispersing agent for industrial solvent-borne paints and pigment concentrates. Specially designed for application in coil coatings and industrial paints systems. HMV polymer.	60%	Butyl acetate		18	□	■	■				■	■
Pat-Add DA 948	Polymeric dispersing agent, strong adsorption properties onto carbon blacks, organic pigments & extenders, best dispersion stability and high transparency. Specially for use in EP and PU floorings. HMV polymer.	100%		2	38	□	■	■	■			■	■
Pat-Add DA 1666	Dispersant, anti-settling, anti-sagging agent; polymeric polyamide salt, electroneutral, multi compatibility.	55%	Xylene/Isobutanol/Solvesso 100	20	20	■	■	■				■	■
Pat-Add DA 1801	Wetting and dispersing agent, for matting agents and pigments, in air-drying paints and industrial paints systems. Polyester, anionic.	60%	Xylene/MPA	60		■	■	■				■	
Pat-Add DA 1808	Low molecular weight pigment dispersant, mainly for polar pigments, wide range of compatibility. Polyester compound.	100%			67	■	■	■	■	■	■		
Pat-Add DA 1814	Anionic dispersing agent for solvent borne paints, inks and colorants. Very effective for medium and high polar solvents and for mixed pigments.	50%	Xylene/MIBK	22	25	■	■			■	■		
Pat-Add DA 3051	Widely accepted pigment dispersant for industrial paints and high concentrated RMPC, including carbon black. Polyurethane polymer, multi-anchoring. HMV polymer.	30%	Xylene/MPA	6		□	■	□				■	■
Pat-Add DA 3204	Polymeric wetting and dispersing agent based on Ultra Charge technology for industrial paints and high concentrated RMPC for organic pigments including high to low channel carbon blacks	50%	Xylene			■	■	□				■	■

Additives for Solventborne Systems

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

Polymer / Silicone Defoamers

Pat-Add AF 61	De-airing and defoamer for low pigmentation systems. Polymer in organic solvent, silicone and fluoro free, active content 35%.	Clear liquid	White spirit	■	■	■	□	■	■	■
Pat-Add AF 62	De-airing and defoamer for clear and low pigmented systems. First choice as non-silicone for wood coatings. Polymer in organic solvent, silicone and fluoro free. Active content 35% .	Clear liquid	White spirit butyl glycol	■	■	■	□	■	■	■
Pat-Add AF 70	De-aerator and defoamer for solvent free/high solid industrial and protect coatings, epoxy and PU floor coating, polysiloxane and organic polymer compound. Active content 5%.	Clear liquid	Odour less White spirit	□	■	■	■	□	■	
Pat-Add AF 72	Liquid de-aerator and defoamer for organic solvent borne coatings and inks, varnishes, industrial finishes, furniture lacquers and wood-coatings. Recommended for solvent free systems	Clear liquid	DIBK	■	■	■	■	■	■	
Pat-Add AF 75	Silicone free de-airing agent, most suitable for use in acid-cured wood varnishes, NC-varnishes, epoxy coatings. Active content 38%.	Clear liquid	Solvesso 100	□	■	■	■	□	■	
Pat-Add AF 81	Polysiloxane and organic polymer compound liquid de-aerator and defoamer with an added edge of excellent leveling for floor coatings, solvent free and solvent borne coatings. Active content 3%	Clear liquid	Isobutanol/Solvesso 100	□			■	□	■	

Leveling & Slip Additives

Pat-Add LE 1010	Leveling, with slip and mar resistance. Contributes to orientation of the matting agents and metal pigment. Polyether modified polysiloxane, approximately 10% polysiloxane.	Clear liquid	Xylene	■	■	■			■	
Pat-Add LE 1019	Leveling, with slip and mar resistance. Contributes to orientation of the matting agents and metal pigment. Polyether modified polysiloxane, 99-100%	Clear liquid		■	■	■	■	■	■	
Pat-Add LE 1020	Leveling and substrate wetting; enhances the gloss; contributes to optimal matting agents and metal pigment orientation. Polyether modified polysiloxane, approx. 10% polysiloxane.	Clear liquid	Xylene	■	■	■	□		■	
Pat-Add LE 1477	Flow and leveling agent for organic solventborne clear and pigmented systems. Surface tension reducer, supports substrate wetting and de-aeration	Clear liquid	Butyl acetate	■	■	■	■	■	■	
Pat-Add LE 1065	Efficient surface tension modifier, at very low concentrations. Excellent efficiency in promoting film leveling and avoiding formation of craters. Suitable for solvent-borne systems, notably for UPR and PUR systems. approximately 50% polysiloxane.	Clear liquid	MPA	□	■	■	■		■	
Pat-Add LE 1066	Leveling agent in solvent-free or solvent-less floor coating, based on epoxy and PU. Efficient surface tension modifier with edge and PU resin systems. Approximately 52% polysiloxane	Clear liquid	Odorless	□	■	■	■		■	
Pat-Add LE 1070	Leveling, for maintaining optimal adhesion. First choice for coil and can coatings. Polyester, approx. 99-100% silicone and fluoro free leveling agent.	Clear liquid		□	■	■	■		■	
Pat-Add SL 1120	Provides best slip, contributes to leveling, optimal matting agent and metal pigment orientation. Polyether modified polysiloxane, approx. 15% polysiloxane.	Clear liquid	Butyl acetate	□	■	■			■	

Additives for Solventborne Systems

Flow and Leveling Additives

Additive	Main application characteristics & composition	Active (%)	Appearance	Diluent/ solvent	Recommended for						
					Solventborne systems			Solvent free	Decorative	Industrial	Colorant
					Non-polar	Medium polar	polar				
Pat-Add FL 7	Silicone and fluoro free. Liquid flow agent for solventborne systems, industrial coatings; Help in smooth films, improved appearance, free from imperfections such as: pinholes, orange peel and craters.	50	Clear liquid	Butyl acetate			□	■	■	■	■
Pat-Add FL 9	Silicone and fluoro free. Liquid flow agent for coil coatings and solvent-borne systems; For improved film appearance, free from imperfections such as: pinholes, orange peel and craters. Supports de-aeration.	56	Clear liquid	Butyl acetate				■	■	■	■

Rheology Modifiers for UPR

Additive	Main application characteristics & composition	Active matter (%)	Diluent/ solvent	Recommended for							
				Solventborne systems			Solvent free	Decorative	Industrial	Colorant	
				Non-polar	Medium polar	polar					
Pat-Add Rheol 253	Liquid rheology modifier for use in UP systems, gelcoats, epoxies and ambient temperature curing solventborne systems; contributes to the formation of a thixotropic structure and reduces risk of sedimentation, separation.	55%	Xylene/ Isobutanol/ Solvesso 100				■		■		

Anti-Settling Additive

Additive	Main application characteristics & composition	Active matter (%)	Solvents	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for						
						Solventborne systems			Solvent free	Decorative	Industrial	Colorant
						Non-polar	Medium polar	polar				
Pat-Add DA 831	Anti-settling & anti-sagging agent in primers & high loaded systems, anionic.	36%	Water			■	■	□		■	□	

Additive for water incorporation into SB alkyd based systems

Additive	Main application characteristics & composition	Active matter (%)	Solvents	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for						
						Solventborne systems			Solvent free	Decorative	Industrial	Colorant
						Non-polar	Medium polar	polar				
Pat-Add DA 786	Offers excellent gloss retention, stable viscosity, no syneresis and acts as a good anti-settling & anti-sagging agent in primers & high loaded systems.	38%	Water			■	■	□		■	□	
Pat-Add DA 787	VOC free, enables water incorporation in long oil & styrenated alkyds. Provides long term stability with no phase separation and pigment flocculation. Can be used in co-grinding systems along with dispersing agent.	100%				■	■	□		■	□	



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