BYK
Additives & Instruments

Product Guide L-G 1

Paint Additives

May 2016

A member of ALTANA

Paint Additives

Content

Wetting and Dispersing Additives (deflocculating)

for Wetting and Stabilization of Pigments and to Avoid Flooding/Floating, Improve Gloss and Transparency

Additive	Composition	Solvents	Active substance (%) *	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for					
						Aqueous systems		Solvent-borne systems			
						Emulsions	Amine neutralized	Non-polar	Medium-polar	Polar	Solvent-free systems
ANTI-TERRA-U	Salt of polyamine amides and acidic polyesters	Xylene/Isobutanol 8/1	50	24	19			■	■	■	
ANTI-TERRA-U 80	Salt of polyamine amides and acidic polyesters	Butylglycol	80	40	30			■	■	■	
ANTI-TERRA-U 100	Salt of polyamine amides and acidic polyesters	-	100	50	35						■
BYK-154	Ammonium salt of an acrylate copolymer	Water	42	-	-	■					
BYK-220 S	Polycarboxylic acid polyester	Alkylbenzenes	52	100	-			■	■	■	
BYK-9076	Alkylolammonium salt of a copolymer	-	100	38	44			■	■	■	■
BYK-9077	Copolymer with pigment affinic groups	-	100	-	48			■	■	■	■
DISPERBYK-102	Copolymer with acidic groups	-	100	101	-		■	■	■	■	■
DISPERBYK-103	Copolymer	Methoxypropylacetate	40					■	■	■	
DISPERBYK-106	Salt of a polymer with acidic groups	-	100	132	74			■	■	■	■
DISPERBYK-107	Hydroxyfunctional carboxylic acid ester	Isoparaffinic hydrocarbons	90	-	64			■	■	■	
DISPERBYK-108	Hydroxyfunctional carboxylic acid ester	-	100	-	71			■	■	■	■
DISPERBYK-109	High molecular weight alkylolamino amide	-	100	-	140			■	■	■	■
DISPERBYK-110	Copolymer with acidic groups	Methoxypropylacetate/Alkylbenzenes 1/1	52	53	-			■	■	■	
DISPERBYK-111	Copolymer with acidic groups	-	100	129	-			■	■	■	■
DISPERBYK-115	Block copolymer	Xylene/Butylacetate/Methoxypropylacetate 5/1/1	52	-	25			■	■	■	
DISPERBYK-118	Linear polymer with pigment affinic groups	Methoxypropylacetate	80	36	-			■	■	■	
DISPERBYK-140	Alkylolammonium salt of an acidic polymer	Methoxypropylacetate	52	73	76			■	■	■	
DISPERBYK-142	Salt of a copolymer with pigment affinic groups	Methoxypropylacetate	60	46	43			■	■	■	
DISPERBYK-145	Phosphoric acid ester salt of a copolymer	-	100	76	71			■	■	■	■
DISPERBYK-161	Block copolymer with pigment affinic groups	Methoxypropylacetate/Butylacetate 6/1	30	-	11				■	■	
DISPERBYK-162	Block copolymer with pigment affinic groups	Methoxypropylacetate/Xylene/Butylacetate 5/4/2	38	-	13				■	■	
DISPERBYK-163	Block copolymer with pigment affinic groups	Xyene/Butylacetate/Methoxypropylacetate 3/1/1	45	-	10			■	■	■	
DISPERBYK-164	Block copolymer with pigment affinic groups	Butylacetate	60	-	18			■	■	■	
DISPERBYK-166	Block copolymer with pigment affinic groups	Butylacetate/Methoxypropylacetate 4/1	29.5	-	20			■	■	■	
DISPERBYK-167	Block copolymer with pigment affinic groups	Methoxypropylacetate/Butylacetate 2/1	52	-	13			■	■	■	
DISPERBYK-168	Block copolymer with pigment affinic groups	Dicarboxylic acid ester	30	-	11			■	■	■	
DISPERBYK-170	Block copolymer with pigment affinic groups	Methoxypropylacetate/Butylacetate 6/1	30	11	-			■	■	■	
DISPERBYK-174	Block copolymer with pigment affinic groups	Xylene/Methoxypropylacetate/Butylacetate 3/2/1	52.5	22	-			■	■	■	
DISPERBYK-180	Alkylolammonium salt of a copolymer with acidic groups	-	100	94	94		■	■	■	■	■
DISPERBYK-181	Alkylolammonium salt of a polymer	Methoxypropylacetate/Propyleneglycol Methoxypropanol 5/3/2	65	33	33	■	■		■	■	
DISPERBYK-182	Block copolymer with pigment affinic groups	Methoxypropylacetate/Methoxypropoxypropanol/ Butylacetate 7/4/4	43	-	13		■	■	■	■	
DISPERBYK-184	Block copolymer with pigment affinic groups	Dipropyleneglycolmonomethylether/ Propyleneglycol 2/1	52	-	15		■				
DISPERBYK-185	Block copolymer with pigment affinic groups	-	52	-	17		■	■	■	■	■
DISPERBYK-187	Alkylolammonium salt of a polymer	Propyleneglycol/Methoxypropanol 1/1	70	35	35	■	■		■	■	
DISPERBYK-190	Block copolymer with pigment affinic groups	Water	40	10	-		■				
DISPERBYK-191	Copolymer with pigment affinic groups	-	100	30	20		■				
DISPERBYK-192	Copolymer with pigment affinic groups	-	100	-	-		■				
DISPERBYK-194 N	Copolymer with pigment affinic groups	Water	57	75	-		■				
DISPERBYK-199	Copolymer with pigment affinic groups	Water	40	1.5	-	■	■				
DISPERBYK-2000	Copolymer with pigment affinic groups	Methoxypropylacetate/Butylglycol 1/1	40	-	4				■	■	
DISPERBYK-2001	Acrylate block copolymer	Methoxypropylacetate/Butylglycol/ Methoxypropanol 2/2/1	46	19	29				■	■	
DISPERBYK-2008	Acrylate block copolymer	Propyleneglycol	60	-	66			■	■	■	■
DISPERBYK-2009	Structured acrylate copolymer	Methoxypropylacetate/Butylglycol 1/1	44	-	4			■	■	■	■
DISPERBYK-2010	Structured acrylate copolymer	Water	40	20	20	■	■				
DISPERBYK-2012	Structured acrylate copolymer	Water	40	7	7	■	■				
DISPERBYK-2013	Structured copolymer with pigment-affinic groups	-	100	8	18	■	■	■	■	■	■
DISPERBYK-2015	Structured acrylate copolymer	Water	40	10	-	■	■				
DISPERBYK-2022	Structured acrylate copolymer	Methoxypropylacetate	60	-	61			■	■	■	
DISPERBYK-2025	Structured acrylate copolymer	Methoxypropylacetate	70	38	37			■	■	■	
DISPERBYK-2050	Acrylate copolymer with pigment affinic groups	Methoxypropylacetate	52	-	30				■	■	
DISPERBYK-2055	Copolymer with pigment affinic groups	-	100	-	40	■	■	■	■	■	■
DISPERBYK-2060	Copolymer with pigment affinic groups	Water	100	5	-	■	■	■	■	■	
DISPERBYK-2061	Copolymer with pigment affinic groups	-	100	-	3	■	■	■	■	■	
DISPERBYK-2096	Polar acidic esters and high molecular weight alcohols	-	100	40	-	■		■	■	■	
DISPERBYK-2117	Block copolymer with pigment affinic groups	-	100	-	24			■	■	■	■
DISPERBYK-2118	Block copolymer with pigment affinic groups	-	100		16.5			■	■	■	■
DISPERBYK-2150	Block copolymer with basic groups	Methoxypropylacetate	52	-	57			■	■	■	
DISPERBYK-2151	Higher molecular weight polyester	Methoxypropylacetate	80	-	-			■	■	■	■
DISPERBYK-2152	Highly branched polyester	-	100	-	-				■	■	■
DISPERBYK-2155	Block copolymer with pigment affinic groups	-	100		48			■	■	■	■
DISPERBYK-2163	Block copolymer with pigment affinic groups	Xylene/Butylacetate/Methoxypropylacetate 3/1/1	45		10			■	■	■	
DISPERBYK-2164	Block copolymer with pigment affinic groups	Butylacetate/Methoxypropylacetate 2/3	60		14			■	■	■	
DISPERBYK-2200	Copolymer with pigment affinic groups	- (Pellets)	100	-	-			■	■	■	■

* The content of active substance does not necessarily correspond to the non-volatile matter content. Depending on the composition of the product and the analytical method of determination, the non-volatile matter content can be higher or lower. The active substance content serves as the basis for calculating the dosage.

Wetting and Dispersing Additives (controlled flocculating)

for Wetting and Stabilization of Pigments and to Avoid Settling, Sagging, and Flooding/Floating

Additive	Composition	Solvents	Active substance (%) *	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for					
						Aqueous systems		Solvent-borne systems			Solvent-free systems
						Emulsions	Amine neutralized	Non-polar	Medium-polar	Polar	
ANTI-TERRA-203	Alkylolammonium salt of a polycarboxylic acid	Alkylbenzenes	50	51	51				■		
ANTI-TERRA-204	Polycarboxylic acid salt of polyamine amides	Methoxypropanol/ Alkylbenzenes 3/2	52	41	37			■	■		
ANTI-TERRA-250	Alkylolammonium salt of an acidic polymer	Water	70	46	41	■	■				
BYK-P 104	Polycarboxylic acid polymer	Xylene/Diisobutylketone 9/1	50	180	-				■	■	
BYK-P 104 S	Polycarboxylic acid polymer	Xylene/Diisobutylketone 9/1	50	150	-				■	■	

* The content of active substance does not necessarily correspond to the non-volatile matter content. Depending on the composition of the product and the analytical method of determination, the non-volatile matter content can be higher or lower. The active substance content serves as the basis for calculating the dosage.

Pigment Synergists (in powder form)

to Support Pigmentdispersion

Additive	Composition	Properties
BYK-SYNERGIST 2100	Insoluble pigment complex	For phthalocyanine pigments, organic violet pigments, and carbon black. Use always in combination with high molecular weight wetting and dispersing additives.
BYK-SYNERGIST 2102	Insoluble pigment complex	For phthalocyanine pigments, organic violet pigments, and carbon black. Polar version of BYK-SYNERGIST 2100. Use always in combination with high molecular weight wetting and dispersing additives.
BYK-SYNERGIST 2105	Insoluble pigment complex	For organic red, yellow, and orange pigments. Use always in combination with high molecular weight wetting and dispersing additives.

Silicone Surface Additives

to Reduce Surface Tension

Additive	Composition	Reactive group	Solvents	Active substance (%)	Surface slip	Substrate wetting	Anti-crater effect	Leveling	Recommended for					
									Aqueous systems		Solvent-borne systems			
									Dispersions	Amine neutralized	Non-polar	Medium-polar	Polar	Solvent-free
BYK-300	Polyether modified polydimethylsiloxane		Xylene/Isobutanol 4/1	52	■	■					■	■	■	
BYK-302	Polyether modified polydimethylsiloxane		-	100	■	■			■	■	■	■	■	■
BYK-306	Polyether modified polydimethylsiloxane		Xylene/Monophenylglycol 7/2	12.5	■	■	■				■	■	■	
BYK-307	Polyether modified polydimethylsiloxane		-	100	■	■	■				■	■	■	■
BYK-310	Polyester modified polydimethylsiloxane		Xylene	25	■	■	■				■	■	■	
BYK-313	Polyester modified polydimethylsiloxane		Methoxypropylacetate	15	■	■	■				■	■	■	
BYK-315 N	Polyester modified polymethylalkylsiloxane		Methoxypropylacetate/ Phenoxyethanol 1/1	25				■			■	■	■	
BYK-320	Polyether modified polymethylalkylsiloxane		White spirit/Methoxypropylacetate 9/1	52				■			■	■	■	
BYK-322	Aralkyl modified polymethylalkylsiloxane		-	100				■			■	■	■	■
BYK-323	Aralkyl modified polymethylalkylsiloxane		-	100				■			■	■	■	■
BYK-325	Polyether modified polymethylalkylsiloxane		Alkylbenzenes/Butyrolactone 1/1	52				■			■	■	■	
BYK-330	Polyether modified polydimethylsiloxane		Methoxypropylacetate	51	■	■	■		■	■	■	■	■	■
BYK-331	Polyether modified polydimethylsiloxane		-	100	■	■		■			■	■	■	■
BYK-332	Polyether modified polydimethylsiloxane		-	100	■	■		■	■	■	■	■	■	■
BYK-333	Polyether modified polydimethylsiloxane		-	100	■	■	■		■	■	■	■	■	■
BYK-342	Polyether modified polydimethylsiloxane		Dipropyleneglycol monomethylether	52	■	■	■		■	■	■	■	■	■
BYK-345	Silicone surfactant		-	100		■		■	■	■				
BYK-346	Silicone surfactant		Dipropyleneglycol monomethylether	52		■		■	■	■				
BYK-347	Silicone surfactant		-	100		■		■	■	■				
BYK-348	Silicone surfactant		-	100		■		■	■	■				
BYK-349	Silicone surfactant		-	100		■		■	■	■				
BYK-370	Polyestermodified polydimethylsiloxane	OH	Xylene/Alkylbenzenes/ Cyclohexanone/Monophenylglycol 75/11/7/7	25	■	■		■			■	■	■	
BYK-375	Polyether-polyester-modified polydimethylsiloxane	OH	Dipropyleneglycol monomethylether	25	■	■		■	■	■	■	■	■	■
BYK-377	Polyether modified polydimethylsiloxane	OH	-	100	■	■					■	■	■	■
BYK-378	Polyether modified polydimethylsiloxane		-	100	■	■			■	■	■	■	■	■
BYK-3455	Polyether modified polydimethylsiloxane		-	100		■		■	■	■				■
BYK-3550	Polysiloxane modified polyacrylate		Methoxypropylacetate	52		■	■				■	■	■	
BYK-SILCLEAN 3700	Silicone modified polyacrylate	OH	Methoxypropylacetate	25							■	■	■	
BYK-SILCLEAN 3701	Epoxyfunctional polydimethylsiloxane	Epoxy	-	100							■	■	■	■
BYK-SILCLEAN 3720	Polyether modified polydimethylsiloxane	OH	Methoxypropanol	25						■				
BYK-UV 3510	Polyether modified polydimethylsiloxane		-	100	■	■		■			■	■	■	■

Crosslinkable Surface Additives (Acrylic-functional)

Additive	Composition	Reactive diluent	Active substance (%)	Recommended for			Properties
				Aqueous systems	Solvent-borne systems	Solvent-free systems	
BYK-UV 3500	Polyethermodified polydimethylsiloxane	-	100	■	■	■	High surface slip
BYK-UV 3505	Modified polydimethylsiloxane	TPGDA	40	■	■	■	High surface slip
BYK-UV 3530	Polyethermodified, acrylic-functional siloxane	-	100	■	■	■	
BYK-UV 3535	Modified polyether	-	100	■	■	■	Anti-slip effect, silicone-free
BYK-UV 3570	Polyestermodified polydimethylsiloxane	PONPGDA	70		■	■	Medium surface slip
BYK-UV 3575	Modified polydimethylsiloxane	TPGDA	40	■	■	■	Medium surface slip
BYK-UV 3576	Modified polydimethylsiloxane	TPGDA	40	■	■	■	Low surface slip

TPGDA = Tripropyleneglycoldiacrylate PONPGDA = Propoxylated Neopentylglycoldiacrylate

Surface Additives, silicone-free

Additive	Composition	Solvents	Active substance (%)	Leveling	Air release, defoaming	Anti-popping	Substrate wetting, anti-crater effect	Recommended for				Remarks
								Aqueous systems	Solvent-borne systems	Solvent-free systems	Masterbatch resins for powder coatings	
BYK-350	Polyacrylate	-	100	■					■	■		
BYK-352	Polyacrylate	Methoxypropanol	80	■	■				■	■		
BYK-354	Polyacrylate	Solvent Naphtha/ Diisobutylketone 9/1	51	■	■				■			
BYK-355	Polyacrylate	Methoxypropylacetate	52	■					■	■		
BYK-356	Polyacrylate	-	100	■					■	■	■	
BYK-358 N	Polyacrylate	Alkylbenzenes	52	■					■			
BYK-359	Polyacrylate	-	100	■					■	■	■	
BYK-361 N	Polyacrylate	-	100	■					■	■	■	Solvent-free version of BYK-358 N
BYK-381	Polyacrylate, ionic	Dipropyleneglycol-monomethylether	52	■				■				
BYK-390	Polyacrylate	Xylene	50		■	■			■			
BYK-392	Polyacrylate	Methoxypropylacetate	52	■	■	■			■			
BYK-394	Polyacrylate	Dipropyleneglycol-monomethylether	80	■					■	■		Reduced foil adhesion
BYK-399	Surface active polymer	-	100	■	■		■		■	■		
BYK-3410	Alcohol alkoxylates		100									
BYK-3440	Polyacrylate	Dipropyleneglycol-monomethylether	10	■			■	■	■	■		
BYK-3441	Polyacrylate	Dipropyleneglycol-monomethylether	52	■				■		■		
BYK-3560	Polyether macromer-modified polyacrylate	-	100	■				■	■	■		Increases surface energy of the cured paint film
BYK-DYNWET 800 N	Alcohol alkoxylates	-	100	■			■	■				
BYKETOL-AQ	Surface active low molecular weight polymers	Methoxypropanol	100	■	■	■	■	■				
BYKETOL-OK	Combination of high-boiling aromatics, ketones and esters	Alkylbenzenes/ Diisobutylketone/ Dipentene 14/5/1	100	■	■	■	■		■			
BYKETOL-PC	Composition of a modified urea	Water	90					■				Delays the drying of aqueous pigment concentrates
BYKETOL-WS	Surface active low molecular weight polymers	Butylglycol	100	■	■	■	■	■				

Acrylate Leveling Additives, in powder form

Additive	Composition	Residue after calcining (%)	Acrylate content (%)	Leveling	Anti-crater effect	Pigment wetting	Recommended for powder coatings	Remarks
BYK-360 P	Polyacrylate, adsorbed on silicon dioxide	39	57	■	■		■	
BYK-364 P	Polyacrylate, adsorbed on silicon dioxide	37	60	■	■	■	■	OH reactive
BYK-366 P	Polyacrylate, adsorbed on silicon dioxide	34	63	■	■		■	
BYK-368 P	Polyacrylate, adsorbed on silicon dioxide	34	63	■	■		■	
BYK-3900 P	Polyacrylate, adsorbed on silicon dioxide	34	63	■	■		■	Enhanced acceptance of impurities
BYK-3902 P	Polyacrylate, adsorbed on silicon dioxide	32	63	■	■		■	For thin layer powder coatings
BYK-3931 P	Polyacrylate, adsorbed on silicon dioxide	34	63		■		■	Synergist; used in combination with standard leveling additives
BYK-3932 P	Polymer, adsorbed on silicon dioxide	32	63	■	■		■	High surface slip
BYK-3933 P	Polyacrylate, adsorbed on silicon dioxide	32	63	■	■		■	High transparency, increases surface tension

Nano Surface Additives

for Improved Scratch Resistance

Additive	Composition	Particle content (%)	Carrier	Particle size D50 (nm)	Recommended for				Application areas
					UV systems		Conventional systems		
					Aqueous	Solvent-free	Aqueous	Solvent-borne	
NANOBYK-3600*	Aluminum oxide nanoparticles	50	Water	40	■				Parquet and furniture coatings
NANOBYK-3601*	Aluminum oxide nanoparticles	30	TPGDA	40		■			Parquet/furniture and industrial coatings
NANOBYK-3602*	Aluminum oxide nanoparticles	30	HDDA	40		■			Parquet/furniture and industrial coatings
NANOBYK-3603	Aluminum oxide nanoparticles	40	Water	25	■		■		Wood and furniture coatings, industrial, architectural coatings
NANOBYK-3605	Silica nanoparticles, surface-modified	50	HDDA	20		■			Parquet/furniture and industrial coatings
NANOBYK-3610	Aluminum oxide nanoparticles, surface-modified with polysiloxane	30	Methoxypropylacetate	20		■		■	Wood and furniture coatings, industrial coatings, plastic coatings
NANOBYK-3620	Silica nanoparticles, surface-modified	30	Water	< 100	■				Wood and furniture coatings, industrial, architectural coatings
NANOBYK-3630	Boehmite nanoparticles, surface-modified	30	Aromatic-free white spirits	< 30				■	Architectural coatings
NANOBYK-3650	Silica nanoparticles, surface-modified with polysiloxane	25	Methoxypropylacetate/ Methoxypropanol 6/1	20				■	Wood and furniture coatings, industrial coatings, automotive refinish coatings
NANOBYK-3651	Silica nanoparticles, surface-modified with polysiloxane	20	Methoxypropylacetate/ Methoxypropanol 6/1	20				■	Wood and furniture coatings, industrial coatings, automotive coatings
NANOBYK-3652	Silica nanoparticles, surface-modified with polysiloxane	25	Methoxypropylacetate/ Methoxypropanol 6/1	20				■	Wood and furniture coatings, industrial coatings, automotive coatings

*For enhanced effectivity the combination with standard silicone surface additives is recommended. TPGDA = Tripropyleneglycoldiacrylate HDDA = Hexanedioldiacrylate

Silicone Defoamers

Additive	Composition				Recommended for						Properties/Application areas
				Solvents/Carrier	Aqueous systems		Solvent-borne systems				
	Polysiloxane	Hydro-phobic particles	Polymers		Emulsions	Amine neutralized	Non-polar	Medium-polar	Polar	Solvent-free systems	
BYK-017	■	■		-	■	■					Millbase defoamer for glycol pastes and aqueous pigment concentrates
BYK-018	■	■		Polyglycol	■	■					PVC 18-25, highly effective against micro foam
BYK-019	■			Dipropyleneglycolmono-methylether	■						For PU and PU/acrylate systems
BYK-021	■	■		Polyglycol	■						PVC 18-25, also for airless application
BYK-022	■	■		Polyglycol	■	■					PVC 18-25, highly effective against micro foam
BYK-023	■	■		Water	■	■					PVC 30-50
BYK-024	■	■		Polyglycol	■	■					PVC 0-25
BYK-025	■			Dipropyleneglycolmono-methylether	■	■					Very easy incorporation (specifically for curtain coaters)
BYK-028	■	■		Polyglycol	■	■					Standard silicone defoamer for aqueous systems
BYK-044	■	■			■	■					Millbase defoamer for glycol pastes and aqueous pigment concentrates
BYK-065	■			Cyclohexanone			■	■	■		
BYK-066 N	■			Diisobutylketone			■	■	■		Standard silicone defoamer for solvent-borne systems
BYK-067 A	■			Propylene glycol			■	■	■	■	Solvent-free version of BYK-066 N
BYK-072	■			Xylene/Butanol/ Methylisobutylketone 2/1/1				■	■		
BYK-077	■			Alkylbenzenes				■	■		
BYK-081	■			Propylene glycol		■	■	■	■		
BYK-085	■			-				■	■		
BYK-088	■		■	Isoparaffin			■	■	■		Compliant with FDA § 175.300
BYK-093	■	■		Polyglycol	■	■					Excellent effectivity and broad compatibility
BYK-094	■	■		Polyglycol		■					
BYK-141	■			Alkylbenzenes/Isobutanol 11/2				■	■		
BYK-1610	■	■		Water	■						Emulsion paints with medium PVC, also emulsion plasters
BYK-1611	■	■		Water	■	■					PVK 35-70
BYK-1615	■	■		Water	■						Highly filled emulsion paints
BYK-1617	■	■		Water	■	■					PVK 60-85
BYK-1650	■	■		Water	■						PVK 18-35
BYK-1719	■	■			■	■					Glycol-free and VOC-free
BYK-1723	■	■		Water	■	■					PVK 60-85
BYK-1724	■	■		Water	■	■					PVK 0-25
BYK-1730	■	■		Polyglycol	■	■					
BYK-1770	■			-	■	■					Airless/airmix
BYK-1780	■	■		-	■	■					Airless/airmix
BYK-1785	■	■		Water	■	■					Airless/airmix, PVC 18-25
BYK-1798	■			Butylglycol/Ethylhexanol/ White spirit 6/2/1	■	■					
BYK-A 530	■		■	Mixture of hydrocarbons			■	■	■	■	Specifically for epoxy systems

Polymer Defoamers (silicone-free)

Additive	Composition			Recommended for						Properties/Application areas
	Hydrophobic particles	Polymers	Solvents	Aqueous systems		Solvent-borne systems			Solvent-free systems	
				Emulsions	Amine neutralized	Non-polar	Medium-polar	Polar		
BYK-011	■	■	Hydrocarbons/Ethylhexanol 21/1		■					Especially effective in aqueous two-pack PU systems
BYK-012	■	■	-	■						Emulsion paints and plasters with a PVC of 30-85
BYK-014	■	■	-	■						Emulsion paints and plasters with a PVC of 30-85
BYK-015	■	■	-	■	■					Anti-popping effect
BYK-016	■	■	-	■	■					FDA §175.300
BYK-051 N		■	White spirits				■	■		Better compatibility than BYK-052, reduced effectivity
BYK-052 N		■	White spirits			■	■	■		Standard defoamer for industrial and architectural coatings
BYK-054		■	Isoparaffin				■	■	■	Especially for 2-pack PU and epoxy systems
BYK-055		■	Alkylbenzenes/ Methoxypropylacetate 12/1				■	■		Especially for polyester systems (wood and furniture coatings)
BYK-057		■	Alkylbenzenes/ Methoxypropylacetate 8/1				■	■		Also for air release and better leveling
BYK-1640	■	■	Water	■	■					Emulsion paints and plasters (PVC 30-85); suitable for food contact applications
BYK-1710	■	■		■	■					Emission-free, for aqueous two-pack systems and alkyd emulsions
BYK-1711	■	■		■	■					Polymer defoamer for aqueous systems
BYK-1740	■		-	■	■					"Green" defoamer based on environmentally friendly und sustainable raw materials for emulsion paints
BYK-1752		■	Isoparaffins			■	■	■	■	Polymer defoamer for solvent-based and solvent-free systems
BYK-1790		■	-				■	■	■	Specifically for solvent-free radiation curing systems
BYK-1791		■	Isoparaffins				■	■	■	Polymer defoamer for UV and unsaturated polyester systems
BYK-1794		■	-				■	■	■	Emission-free, for two-pack PU systems and epoxides
BYK-A 505		■	-			■	■	■	■	"Green" defoamer based und sustainable raw materials
BYK-A 535		■	-				■	■	■	Especially for 2-pack PU and epoxy systems

Mineral Oil Defoamers (without alkylphenolethoxylates)

Additive	Composition					Recommended for						Recommended PVC range
	Paraffin-based mineral oils	Hydrophobic particles	Water	Polysiloxane	Alkylphenolethoxylate	Emulsion paints, exterior wall paints	Emulsion plasters	Dispersion adhesives	Industrial dispersions	Industrial emulsions	Production of emulsion binders	
BYK-035	■	■		■						■		20-40
BYK-037	■	■	■	■		■	■				■	50-85
BYK-038	■	■		■		■			■	■	■	20-70
BYK-039	■	■				■	■			■		35-70

Rheology Additives

	Non-volatile matter (%)	Supply form/Solvent	Recommended for					Incorporation				Viscosity increase at			Resulting flow behavior		Properties/Application areas
			Aqueous systems	Solvent-borne systems: Polar	Solvent-borne systems: Medium polar	Solvent-borne systems: Non-polar	Powder coatings	Post-addition	With high shear	Premix in water	Extruder (powder coatings)	Low shear rates	Medium shear rates (KU)	High shear rates (ICI)	Pseudoplastic	Thixotropic	
Modified Ureas																	
BYK-410	52	N-Methylpyrrolidone		□	■			■	□			■				■	Anti-settling, anti-sagging, elasticity, universal use
BYK-7410 ET	40	Amide ether															
BYK-D 410	52	Dimethylsulfoxide															
BYK-411	25	N-Methylpyrrolidone			□	■		■	□			■				■	Anti-settling, anti-sagging, elasticity, use in non-polar binders
BYK-7411 ES	25	Amide ester															
BYK-415	30	Dimethylsulfoxide		■	■			■	□			■			■	□	Temperature-stable viscosity; excellent anti-sagging in force-dried systems
BYK-420	52	N-Methylpyrrolidone	■	□				■	□			■				■	Anti-settling, anti-sagging, elasticity, universal use
BYK-7420 ES	40	Amide ester															
BYK-D 420	45	Dimethylsulfoxide															
Polyurethane Thickeners/Associative-thickeners																	
BYK-425	50	Polypropylene glycol 600	■					■				■	□		■		VOC-free associative thickener, viscosity increase already at low dosage, very universal use, urea-modified polyurethane
OPTIFLO-H 370 VF	17.5	Water	■					■				□	■		■		VOC-free associative thickener (HEAT), universal use
OPTIFLO-H 600 VF	15	Water	■					■				■			■		VOC-free associative thickener (HEAT), universal use
OPTIFLO-H 3300 VF	17.5	Water	■					■				□	■		■		VOC-free associative thickener (HEUR), very universal use
OPTIFLO-H 6500 VF[1]	20	Water	■					■				■	□		■		VOC-free associative thickener (HEUR), broad application in emulsion paints
OPTIFLO-H 7500 VF[1]	17.5	Water	■					■				■			■		VOC-free associative thickener (HEUR), especially for architectural paints and wood stains
OPTIFLO-L 150	20	Water	■					■						■	■		Associative thickener (HEAT), especially for the use in acrylate and styrene/acrylate dispersions, very effective against syneresis, newtonian flow behaviour
OPTIFLO-L 1400	20	Water	■					■						■	■		Associative thickener (HEUR), especially for acrylate and styrene/acrylate emulsions, very hydrophobic
OPTIFLO-M 2600 VF	20	Water	■					■					■		■		VOC-free associative thickener (HEUR), especially for colloidal emulsions (VAE)
OPTIFLO-T 1000[2]	22.5	Water	■					■						■	■		VOC-free associative thickener (HEUR), very newtonian flow, highest ICI values
OPTIFLO-TVS VF	12.5	Water	■					■				□	■		■		Associative thickener (HEAT), especially for tinting paste systems
Acrylate Thickeners																	
OPTIFLO-HV 80	30	Water	■					■				■	□		■		Associative thickener (HASE)
Amides and Organic Derivatives																	
ADJUST-4[4]	70	Water/hydrogencarbon mixture			■			■				■			■		Anti-settling in pigmented solvent-borne systems
ADVITROL-100[4]	100	Powder			■				■				■		■		To adjust in-can viscosity in medium polar systems, temperature control required
BYK-405	50	Xylol/Alkylbenzole/Isobutanol 5/4/1		■	■	■		■								■	Enhances thixotropy in systems with pyrogenic silica
BYK-430	30	Isobutanol/Solventnaphtha 9/1			■			■	□				■		■		Liquid alternative to amide thickeners in paste or powder form for universal use (e.g. heavy duty and marine coatings)
BYK-431	30	Isobutanol/Monophenylglykol 4/1				■		■					■		■		
RHEOCIN	100	Powder				■	■		■		■		■		■		To adjust in-can viscosity in non-polar systems, temperature control required
RHEOTIX-240[3]	100	Powder			■				■				■		■		To adjust in-can viscosity in medium polar systems, temperature control required

■ First recommendation □ Second recommendation

HASE = Hydrophobic modified Alkali-Swellable Emulsion HEAT = Hydrophobic Ethoxylated Aminoplast Technology HEUR = Hydrophobic Ethoxylated Urethane

Only available: [1]NAFTA and Europe, [2]USA and Europe, [3]Europe, [4]NAFTA

Rheology Additives

	Non-volatile matter (%)	Supply form/Solvent	Recommended for					Incorporation				Viscosity increase at			Resulting flow behavior		Properties/Application areas
				Solvent-borne systems													
			Aqueous systems	Polar	Medium polar	Non-polar	Powder coatings	Post-addition	With high shear	Premix in water	Extruder (powder coatings)	Low shear rates	Medium shear rates (KU)	High shear rates (ICI)	Pseudoplastic	Thixotropic	
Synthetic Layered Silicates																	
LAPONITE-EP	100	Powder	■							■			■		□	■	Organic-modified product with increased effectivity at medium shear
LAPONITE-RD	100	Powder	■							■		■			□	■	Standard recommendation for universal use
LAPONITE-RDS	100	Powder	■							■		■			□	■	Easier to disperse than LAPONITE-RD
LAPONITE-S 482	100	Powder	■						□	■		■			□	■	For individual premix production; for direct use; for high-solid slurries
LAPONITE-SL 25	25	Water	■					■				■			□	■	Ready-to-use dispersion with high solids
Hydroclays																	
OPTIGEL-CK	100	Powder	■						■	□			■			■	Standard recommendation for universal use
OPTIGEL-CK XR	100	Powder	■						■	□			■			■	Sterilized version of OPTIGEL-CK
OPTIGEL-CG	100	Powder	■						■	□			■			■	For cost-optimized highly filled systems without special requirements for whiteness
OPTIGEL-CMO	100	Powder	■						■	□			■			■	Especially for highly filled thick-layer systems
OPTIGEL-LX	100	Powder	■						■				■		■	□	For cosolvent-free emulsion paints
OPTIGEL-W 724	100	Powder	■						■				■		■	□	Organic-modified, high water-resistance (e.g. heavy duty coatings)
OPTIGEL-WA	100	Powder	■						■				■		■	□	Organic-modified, to increase in-can viscosity
OPTIGEL-WH	100	Powder	■						■				■		■	□	Organically modified, strongly shear thinning
OPTIGEL-WM	100	Powder	■						■				■		■	□	Organic-modified, increases water retention and thus the open-time
OPTIGEL-WX	100	Powder	■						■	□			■		■	□	Organic-modified, for universal use; excellent anti-settling
OPTIGEL-WX XR	100	Powder	■						■	□			■		■	□	Sterilized version of OPTIGEL-WX
Organoclays																	
CLAYTONE-40	100	Powder				■			■			■				■	Standard recommendation for non-polar systems
CLAYTONE-AF	100	Powder				■		■				■				■	Self-activating, for non-polar systems
CLAYTONE-APA	100	Powder		□	■			■				■				■	Self-activating, for medium polar/ polar systems
CLAYTONE-HT	100	Powder			■				■			■				■	For non-polar/medium polar systems
CLAYTONE-HY	100	Powder			□	■	■	■			■	■				■	Self-activating, for non-polar/ medium polar systems
CLAYTONE-II	100	Powder				■			■			■				■	Especially for non-polar solvents
TIXOGEL-EZ 100	100	Powder			■	■			■			■				■	For non-polar/medium polar systems
TIXOGEL-MP	100	Powder			□	■			■			■				■	Optimized clay for non-polar/ medium polar systems
TIXOGEL-MP 100	100	Powder				■	■	■			■	■				■	Self-activating, for non-polar systems
TIXOGEL-MP 250	100	Powder		□	■			■				■				■	Self-activating, for medium polar/ polar systems
TIXOGEL-MPI[5]	100	Powder			■	■		■				■				■	Self-activating, for non-polar/ medium polar systems
TIXOGEL-MPZ	100	Powder		□	■	□			■			■				■	Optimized clay for universal use
TIXOGEL-VP	100	Powder				■			■			■				■	Standard recommendation for non-polar systems
TIXOGEL-VZ	100	Powder		■					■			■				■	Self-activating, for polar systems
Mixed Minerals																	
GARAMITE-1958	100	Powder		□	■			■				■	□		■		Standard recommendation for universal use
GARAMITE-2578	100	Powder		□	■			■				■	□		■		Preferred for high-gloss systems
GARAMITE-7303	100	Powder			□	■		■				■	□		■		For more non-polar systems
GARAMITE-7305	100	Powder		■	□		■	■			■	■	□		■		For more polar systems
Thixotropy-booster																	
BYK-R 605	50	Xylene/Alkylbenzenes/Isobutanol 5/4/1		□	■	□		■				■			■		Enhances the rheology effect in combination with GARAMITE (or pyrogenic silica)
BYK-R 607	77	Shellsol A/Benzyl alcohol 2/1		□	■	□		■				■			■		Enhances the rheology effect in combination with pyrogenic silica, preferred for solvent-free epoxies

■ First recommendation □ Second recommendation

HASE = Hydrophobic modified Alkali-Swellable Emulsion HEAT = Hydrophobic Ethoxylated Aminoplast Technology HEUR = Hydrophobic Ethoxylated Urethane

Only available: [1]NAFTA and Europe, [2]USA and Europe, [3]Europe, [4]NAFTA

Wax Emulsions and Dispersions in Water

Additive	Wax base	Carrier	Emulsifier system	Active substance (%)	Melting point wax component (°C)	Mechanical resistance	Surface slip	Anti-slip	Anti-blocking, water repellency	Soft-feel effect	Gloss reduction	Orientation of effect pigments	Application areas
AQUACER 497	Paraffin wax	Water	Non-ionic	50	60		■		■				Architectural coatings
AQUACER 501	Oxidized HDPE wax	Water	Non-ionic	35	130	■							Leather finishes
AQUACER 507	Oxidized HDPE wax	Water	Anionic	35	130	■						■	Automotive and industrial coatings
AQUACER 513	Oxidized HDPE wax	Water	Non-ionic	35	135	■							Wood, architectural and industrial coatings
AQUACER 517	Oxidized HDPE wax	Water	Non-ionic	35	120	■							Leather finishes
AQUACER 526	Modified EVA copolymer wax	Water	Anionic	30	105							■	Automotive coatings
AQUACER 527	Modified EVA copolymer wax	Water	Non-ionic	35	105			■				■	Effect coatings, overprint varnishes
AQUACER 530	Oxidized wax	Water	Non-ionic	32	130	■	■						Wood coatings, printing inks and overprint varnishes
AQUACER 531	Modified PE wax	Water	Non-ionic	45	130	■			■				Architectural coatings, printing inks and overprint varnishes
AQUACER 532	Modified HDPE wax	Water	Non-ionic	40	130	■	■						Aqueous coatings, printing inks and overprint varnishes
AQUACER 533	Modified paraffin wax	Water	Anionic	40	95		■		■				Architectural coatings, leather finishes and overprint varnishes
AQUACER 537	Modified paraffin wax	Water	Anionic	30	110		■		■				Wood, architectural and industrial coatings
AQUACER 539	Modified paraffin wax	Water	Non-ionic	35	90		■		■				Wood, architectural and industrial coatings
AQUACER 541	Montan ester wax	Water	Non-ionic	30	80	■	■						Leather finishes, can coatings
AQUACER 552	Oxidized HDPE wax	Water	Non-ionic	35	130	■							Aqueous coatings, printing inks
AQUACER 561	Bees wax	Water	Non-ionic	25	65		■		■				Aqueous coatings
AQUACER 565	Carnauba wax	Water	Non-ionic	30	85	■	■						Leather finishes
AQUACER 593	Modified PP wax	Water	Non-ionic	30	160			■					Aqueous coatings, wood coatings, printing inks and overprint varnishes
AQUACER 595	Modified PP wax	Water	Non-ionic	40	140			■					Leather finishes
AQUACER 1547	Oxidized HDPE wax	Water	Anionic	35	125	■							Can coatings
AQUACER 2650	Carnauba wax	Water	Non-ionic	30	85		■		■				Leather finishes
AQUAMAT 208	Oxidized HDPE wax	Water	-	35	135	■				■	■		Wood and architectural coatings
AQUAMAT 263	Oxidized HDPE wax	Water/Propyleneglycol-n-butylether 12/1	-	35	130	■			■	■	■		Architectural coatings
AQUAMAT 272	Modified PE wax	Water	-	55	125	■			■		■		Wood, architectural and industrial coatings
AQUATIX 8421	Modified EVA copolymer wax	Water	Non-ionic	20	105							■	Automotive and industrial coatings
HORDAMER PE 35	Modified PE primary dispersion	Water	Anionic/ non-ionic	37.5	125	■	■						Printing inks and overprint varnishes

PE = Polyethylene PP = Polypropylene HDPE = High Density Polyethylene EVA = Ethylene-Vinylacetate

Wax Dispersions in Organic Solvents

Additive	Wax base	Carrier	Active substance (%)	Melting point wax component (°C)	Mechanical resistance	Surface slip	Anti-blocking, water repellency	Anti-settling	Soft-feel effect	Gloss reduction	Orientation of effect pigments	Application areas
CERACOL 79	Carnauba wax	Dipropyleneglycolmonomethylether	20	85	■	■						Can coatings
CERACOL 601	Carnauba wax	Dipropyleneglycolmonomethylether	20	85	■	■						Can/coil coatings
CERACOL 604	Carnauba wax	Butylglycol	11.5	85	■	■						Can coatings
CERACOL 607	PTFE-modified PE wax	Butyl diglycol acetate/butyl diglycol/ aromatic hydrocarbons 1/1/1	35	115	■	■						Can/coil coatings
CERACOL 609 N	Wax modified Lanolin	Aromatic hydrocarbons/Isopropanol 1/1	20	85	■	■					■	Can/coil coatings
CERAFAK 100	EVA copolymer wax	Xylene/Butylacetate 1/1	10	105				■			■	Industrial coatings
CERAFAK 103	EAA copolymer wax	Xylene/Butylacetate/Butanol 7/8/1	6	110				■			■	Automotive coatings
CERAFAK 106	EVA copolymer wax	Xylene/Butylacetate/Butanol 7/8/1	6	105				■			■	Automotive coatings
CERAFAK 110	EVA copolymer wax	Butylacetate/Butanol 15/1	6	100				■			■	Automotive and industrial coatings
CERAFAK 111	PE wax	Butylacetate	12.5	110				■			■	Automotive and industrial coatings
CERAFAK 117	Modified FT wax	Aromatic-free white spirits	25	110			■					Architectural coatings, protective coatings
CERAFAK 127 N	Modified FT wax	Naphthalene-depleted aromatic hydrocarbons	15	120	■	■	■					Architectural coatings, coil coatings
CERAFAK 140 N	Carnauba wax	Isobutanol/Aromatic hydrocarbons 13/4	15	90	■	■						Can coatings
CERAMAT 248	PE wax	Aromatic-free white spirits	20	110	■					■		Leather finishes, architectural coatings
CERAMAT 250	PE wax	Butylacetate	40	120	■			■	■	■		Wood and industrial coatings
CERAMAT 258	Oxidized HDPE wax	Butylacetate	17.5	135	■			■	■	■		Can coatings, wood and industrial coatings
CERATIX 8461	EVA copolymer wax	Xylene/Butylacetate/Butanol 3/6/1	4.7	105				■			■	Automotive and industrial coatings
CERATIX 8463	EVA/EAA copolymer wax mixture	Xylene/Butylacetate/Butanol 3/6/1	4.4	110				■			■	Automotive and industrial coatings
CERATIX 8466	EVA copolymer wax	Butylacetate/Butanol 9/1	4.7	100				■			■	Automotive and industrial coatings

PE = Polyethylene PTFE = Polytetrafluoroethylene DPE = High Density Polyethylene EVA = Ethylene-Vinylacetate EAA = Ethylene-Acrylic Acid FT = Fischer-Tropsch

Micronized Wax Additives

Additive	Wax base	Particle size (µm)		Melting point (°C)	Mechanical resistance	Surface slip	Anti-slip	Soft-feel effect	Gloss reduction	Sandability	Structure/texture	Outgassing of powder coatings	Pigment wetting in powder coatings	Coating systems			Application areas
		D50	D90											Powder coating	Liquid coatings: Organic solvents	Liquid coatings: Water	
CERAFLOUR 913	PP wax	18	31	160				■	■		■				■	■	Wood and industrial coatings
CERAFLOUR 914	Modified PP wax	24	36	160				■			■				■	■	Wood and industrial coatings
CERAFLOUR 915	Modified PP wax	44	70	160							■				■	■	Wood and industrial coatings
CERAFLOUR 916	Modified HDPE wax/polymer mixture	46	82	135							■				■	■	Wood and industrial coatings
CERAFLOUR 917	Organic polymer	42	64	135	■			■			■				■	■	Coil coatings, industrial and wood coatings
CERAFLOUR 920	Organic polymer	5	16	-	■				■					■	■	■	Wood, architectural and industrial coatings
CERAFLOUR 925	Modified PE wax	6	10	115	■	■									■	■	Can/Coil coatings, industrial coatings
CERAFLOUR 927	Modified PE wax	9	15	125	■				■							■	Wood, architectural, industrial coatings, overprint varnishes and leather finishes
CERAFLOUR 929	Modified PE wax	8	15	115	■			■	■						■	■	Wood, architectural and industrial coatings
CERAFLOUR 932 G	Modified LDPE wax	-	-	105	■	■			■					■			Industrial coatings
CERAFLOUR 932 P	Modified LDPE wax	-	-	105	■	■			■					■			Industrial coatings
CERAFLOUR 950	Modified HDPE wax	9	15	135	■			■	■					■	■		Wood and industrial coatings
CERAFLOUR 960	Modified amide wax	4	11	145								■	■	■			Industrial coatings
CERAFLOUR 961	Modified PE wax	5	11	140	■							■		■			Industrial coatings
CERAFLOUR 962	Modified PE wax	9	21	140	■							■		■			Industrial coatings
CERAFLOUR 964	Amide wax	20	50	75								■		■			Industrial coatings
CERAFLOUR 965	PTFE	31	80	-							■			■			Industrial coatings
CERAFLOUR 967	Synthetic polymer	-	-	-							■			■			Industrial coatings
CERAFLOUR 968	PTFE-modified PE wax	6	11	115	■				■		■			■			Industrial coatings
CERAFLOUR 969	PTFE-modified PE wax	6	14	115	■				■		■			■			Industrial coatings
CERAFLOUR 970	PP wax	9	14	160			■		■					■	■		Wood and industrial coatings
CERAFLOUR 981	PTFE	3	8	-	■	■								■	■		Can/coil coatings, wood and industrial coatings
CERAFLOUR 988	Amide-modified PE wax	6	13	140	■				■						■		Wood, architectural and industrial coatings
CERAFLOUR 991	PE wax	5	9	115	■	■		■	■					■	■		Can/coil coatings, wood and industrial coatings
CERAFLOUR 993	Amide wax	13	31	145	■				■	■		■	■	■			Can coatings, wood and industrial coatings
CERAFLOUR 994	Amide wax	5	10	145	■				■	■		■	■	■	■		Can coatings, wood and industrial coatings
CERAFLOUR 996	PTFE-modified PE wax	6	11	115	■	■			■					■	■		Can/coil coatings, wood, architectural and industrial coatings
CERAFLOUR 997	PTFE-modified PE wax	7	13	115	■	■			■					■			Can/coil coatings, wood, architectural and industrial coatings
CERAFLOUR 998	PTFE-modified PE wax	5	9	115	■	■			■					■	■		Can/coil coatings, wood, architectural and industrial coatings
CERAFLOUR 1000	Organic polymer	5	13	175				■	■						■	■	Wood and industrial coatings

PE = Polyethylene HDPE = High Density Polyethylene LDPE = Low Density Polyethylene PP = Polypropylene PTFE = Polytetrafluoroethylene

Adhesion Promoters

Additive	Composition	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Solvents	Recommended for		Recommended binder systems	Recommended substrates
					Aqueous systems	Solvent-borne systems		
BYK-4500	High molecular weight block copolymer	-	28	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	■	■	Particularly for aqueous epoxy esters, alkyds, hybrids, and solvent-borne TPA and 2-pack PU	Aged coatings, metal (zinc, brass, copper), polar plastics
BYK-4509	Salt of a polymer with acidic groups	29	29	Methoxypropanol	■	■	Particularly for baking systems and 2-pack PU	Metal, glass
BYK-4510	Hydroxyfunctional copolymer with acidic groups	30	-	Methoxypropanol		■	Particularly for baking systems and 2-pack PU	Metal, glass
BYK-4511	Copolymer with functional groups	-	136	Methoxypropylacetate		■	Particularly for 2-pack epoxies and baking systems	Metal, glass
BYK-4512	Polymer with functional groups	-	56			■	Particularly for baking systems and 2-pack PU	Chromium-free pretreated metal, steel, zinc, glass
BYK-4513	Polymer with functional groups	-	60	Dipropyleneglycol monomethylether	■		Two-pack epoxides	Metal

Dispersion of Multi-walled Carbon Nanotubes (CNT)

Additive	Carrier	Particle content (%)	Properties	Recommended for
CARBOBYK-9810	Water	8	Improves electrical and thermal conductivity, antistatic and mechanical properties, electromagnetic shielding	Aqueous coatings and printing inks

Other Additives

Additive	Composition	Acid content (%)	Solvents	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for			Properties
						Aqueous systems	Solvent-borne systems	Powder coatings	
BYK-3950 P	Modified wax	-	-	-	-			■	Processing additive in powder form for inorganic pigments and fillers; used in combination with standard leveling additives
BYK-3951 P	Copolymer with pigment affinic groups, adsorbed on silicon dioxide	-	-	-	-			■	Processing additive in powder form for inorganic pigments and fillers; used in combination with standard leveling additives
BYK-3955 P	Copolymer with pigment affinic groups, adsorbed on silicon dioxide	-	-	-	-			■	Processing additive in powder form for carbon blacks; used in combination with standard leveling additives
BYK-CATALYST 450	Amine salt of p-Toluenesulfonic acid	20	Methoxypropanol/ Propyleneglycol/ Water 64/5/3	60	10	■	■		Blocked acid catalyst
BYK-ES 80	Alkylolammonium salt of an unsaturated acidic carboxylic acid ester	-	Isobutanol	140	140		■		Increases conductivity for electrostatic application

For more information about our additives and instruments, as well as our additive sample orders please visit:

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05/2016