

PRODUCT GUIDE
**ADDITIVES FOR AQUEOUS LEATHER FINISHES
AND COATED FABRICS**

DEFOAMERS

RHEOLOGY
ADDITIVES



WETTING AND
DISPERSING ADDITIVES

SURFACE
ADDITIVES



Surface additives (1/3)

Product	Performance characteristics											Active substance/ non-volatile matter (%)*1	Chemistry/wax base	Emulsifier	Melting point (wax component) in °C	pH value	Carrier/solvent		
	Substrate wetting, anti-cratering	Leveling	Slip increase	Pull-up	Anti-blocking	Soft-feel, touch	Gloss increase	Matting	Scratch resistance	Abrasion resistance	Water repellency							Slowed skin formation	Surface energy increase
Wax-based																			
AQUACER 497		○		○							●			50	Paraffin wax	Non-ionic	60	5.5	Water
AQUACER 517		○				○		●	○					35	Oxidized HDPE wax	Non-ionic	120	9	Water
AQUACER 531						○		●	○					45	Modified PE wax	Non-ionic	130	3.5	Water
AQUACER 533		○		●							○			40	Modified paraffin wax	Anionic	95	9.5	Water
AQUACER 539		○		●				○			●			35	Modified paraffin wax	Non-ionic	90	9.5	Water
AQUACER 552						○		●	○					35	Oxidized HDPE wax	Non-ionic	130	9	Water
AQUACER 570*2		○				●		●	○					40	Sunflower/carnauba wax blend	Non-ionic	85	5	Water
AQUACER 2650*2		○		●				○			●			30	Carnauba wax	Non-ionic	85	4.5	Water
AQUAMAT 208					●		●	●	●					35	Oxidized HDPE wax		135	8.5	Water
AQUAMAT 263					●		●	●	●					35	Oxidized HDPE wax		130	9.5	Water/propylene glycol n-butyl ether 12/1
AQUAMAT 272 N		○			●		●	●	●					55	Modified PE wax		125	4	Water
CERAFLOUR 920					●		●	●						100	Urea-aldehyde resin				
CERAFLOUR 927 N							●	●	●					100	Micronized, modified HDPE wax		125		
CERAFLOUR 929 N					●		●	●	●					100	Micronized, modified PE wax		115		

● Especially recommended ○ Recommended

*1 The active substance content 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.

*2 From bio-based raw materials

*3 The given recommendations apply only when the additive is used in PUD polymerization processes.



Surface additives (2/3)

Product	Substrate wetting, anti-cratering											Active substance/ non-volatile matter (%)*1	Chemistry/wax base	Emulsifier	Melting point (wax component) in °C	pH value	Carrier/solvent	
	Leveling	Slip increase	Pull-up	Anti-blocking	Soft-feel, touch	Gloss increase	Matting	Scratch resistance	Abrasion resistance	Water repellency	Slowed skin formation							Surface energy increase
CERAFLOUR 988			●										100	Micronized, amide-modified polyethylene wax		140		
CERAFLOUR 1000*2					●	●	○	○					100	Polyester		175		
CERAFLOUR 1001*2					●	●	○	○					100	Micronized, modified biopolymer		175		
Silicone-based																		
BYK-307	●	○	●	○	○								100	Polyether-modified polydimethylsiloxane				
BYK-333	○	○	●	●	●								100	Polyether-modified polydimethylsiloxane				
BYK-346	●	●											52	Polyether-modified polydimethylsiloxane				Dipropylene glycol monomethyl ether
BYK-348	●	●											100	Polyether-modified siloxane				
BYK-349	●	●											100	Polyether-modified siloxane				
BYK-378	○	○	●	●	●								100	Polyether-modified polydimethylsiloxane				
BYK-3455	●	●											>90	Polyether-modified polydimethylsiloxane				
BYK-3560		○									●		100	Polyether macromer-modified polyacrylate				
BYK-3565		○									●		>97	Silicone and polyether macromer-modified polyacrylate				
BYK-3566		○									●		>97	Silicone and polyether macromer-modified polyacrylate				

● Especially recommended ○ Recommended

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*2 From bio-based raw materials

*3 The given recommendations apply only when the additive is used in PUD polymerization processes.



Surface additives (3/3)

Product	Performance characteristics											Active substance/ non-volatile matter (%)* ¹	Chemistry/wax base	Emulsifier	Melting point (wax component) in °C	pH value	Carrier/solvent				
	Substrate wetting, anti-cratering	Leveling	Slip increase	Pull-up	Anti-blocking	Soft-feel, touch	Gloss increase	Matting	Scratch resistance	Abrasion resistance	Water repellency							Slowed skin formation	Surface energy increase	For PUD polymerization processes	
BYK-3760	●	●	●		●	●									> 99	Polyether-modified polydimethylsiloxane					
BYK-L 9565* ³			●			●				●				●	100	Polyether-modified polydimethylsiloxane, hydroxy-functional					
BYK-L 9568* ³			●			●				●				●	> 97	Polyether-modified polydimethylsiloxane, hydroxy-functional					
BYK-L 9575			●		●	●		●	●						60	Emulsion of a high molecular weight polydimethylsiloxane				Water	
BYK-SILCLEAN 3720		○	●		○						●				25	Solution of polyether-modified, hydroxy-functional polydimethylsiloxane				Methoxypropanol	
Silicone-free																					
BYKETOL-AQ		○	○												4	Combination of surface-active, low molecular weight polymers				Methoxypropanol	
BYKETOL-PC											●				90	Preparation of modified urea				Water	

● Especially recommended ○ Recommended

*¹ The active substance content 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.

*² From bio-based raw materials

*³ The given recommendations apply only when the additive is used in PUD polymerization processes.



Defoamers

Product				Active substance/ non-volatile matter (%) ^{*4}	Chemistry	Carrier/solvent
	Clear finish	Pigmented finish	Pigment concentrates			
Mineral oil based						
BYK-035	●	●		100	Mixture of paraffinic mineral oils and hydrophobic components. Contains silicone.	
Silicone-based						
BYK-017			●	>98	Compound of foam-destroying polysiloxanes and hydrophobic solids	
BYK-019	●	●		60	Solution of a polyether-modified polydimethylsiloxane	Dipropylene glycol monomethyl ether
BYK-021	●	●		100	Mixture of foam-destroying polysiloxanes and hydrophobic solids in polyglycol	Polyglycol
BYK-024	●	●		100	Mixture of foam-destroying polysiloxanes and hydrophobic solids in polyglycol	Polyglycol
BYK-093	●	●		100	Mixture of foam-destroying polysiloxanes and hydrophobic solids in polyglycol	Polyglycol
BYK-094	●	●		100	Compound of foam-destroying polysiloxanes and hydrophobic solids	
BYK-1610	○	●	○	17	Emulsion of hydrophobic solids, emulsifiers, and foam-destroying polysiloxanes	Water
BYK-1615	●	●		12.5	Emulsion of hydrophobic solids, emulsifiers, and foam-destroying polysiloxanes	Water
BYK-1781	●	●		100	Polyether-modified polydimethylsiloxane with hydrophobic particles	
Polymer-based, silicone-free						
BYK-014 ^{*5}	●	●		100	Polyether with hydrophobic particles	
BYK-1711	●	●		100	Solution of polyolefin with hydrophobic particles	
BYK-1740 ^{*5}	●	●		100	Blend of hydrophobic solids and foam-destroying fat derivatives	

● Especially recommended ○ Recommended

^{*4} The active substance content 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.

^{*5} From bio-based raw materials



Rheology additives (1/2)

Product	Incorporation						Viscosity increase at			Resulting flow behavior			Associative thickener	Active substance/ non-volatile matter (%) ^{*8}	Chemistry/wax base	Emulsifier	Melting point (wax component) in °C	pH value	Carrier/solvent	
	Clear finish	Pigmented finish	Pigment concentrates	Post-addition	With high shear	Premix in water	Low shear rates	Medium shear rates (KU)	High shear rates (CI)	Pseudoplastic	Thixotropic	Newtonian								
AQUATIX 8421	●	●	●	●			●						●		20	Modified EVA wax	Non-ionic	105	5.5	Water
RHEOBYK-420		○	●	●	○		●						●		52	Modified urea				N-Methylpyrrolidone
RHEOBYK-425	●	●	●	●			●	○					●	●	50	Urea-modified polyurethane				Polypropylene glycol
RHEOBYK-7420 ET		○	●	●	○		●						●		42	Solution of a modified urea				Amide ether
Polyurethane thickeners/associative thickeners																				
RHEOBYK-7610	●	●	●	●			●						●	●	20	Solution of a polyurethane				Water
RHEOBYK-H 3300 VF	●	●	○	●			●	○					●	●	17.5	Solution of a polyurethane			8 ± 1	Water
RHEOBYK-H 7500 VF	●	●	○	●			●						●	●	17.5	Solution of a polyurethane			8 ± 1	Water
RHEOBYK-H 7625 VF	●	●	●	●			●	○					●	●	20	Solution of a polyurethane				Water
RHEOBYK-L 1400 VF	●	●	○	●					●				●	●	20	Solution of a polyurethane				Water
RHEOBYK-M 2600 VF	●	●	●	●			●		●				●	●	20	Solution of a polyurethane			8 ± 1	Water
RHEOBYK-T 1000 VF	●	●	○	●					●				●	●	22.5	Solution of a polyurethane				Water
RHEOBYK-T 1010 VF	●	●	●	●					●				●	●	22.5	Solution of a polyurethane				Water

● Especially recommended ○ Recommended

^{*8} The active substance content 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.

^{*9} Especially for systems with cosolvent and low and high pH values



Rheology additives (2/2)

Product	Incorporation			Viscosity increase at		Resulting flow behavior			Associative thickener	Active substance/ non-volatile matter (%)* ⁸	Chemistry/wax base	Emulsifier	Melting point (wax component) in °C	pH value	Carrier/solvent
	Clear finish	Pigmented finish	Pigment concentrates Post-addition	With high shear	Premix in water	Low shear rates	Medium shear rates (KU)	High shear rates (CI)							
Synthetic phyllosilicates															
LAPONITE-EP* ⁹	●	●	●		●	●		○	●						
LAPONITE-RD	●	●	●		●	●		○	●						
LAPONITE-RDS	●	●	●		●	●		○	●						
LAPONITE-S 482	○	○	●	○	●	●		○	●						
LAPONITE-SL 25	○	○	●	●		●		○	●						Water
Activated phyllosilicates															
OPTIGEL-CK	○	●		●	●	●			●						
OPTIGEL-WX	○	●		●	●	●		●	○						

● Especially recommended ○ Recommended

*⁸ The active substance content 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.

*⁹ Especially for systems with cosolvent and low and high pH values



Wetting and dispersing additives (1/2)

Product	Organic pigments, carbon blacks	Inorganic pigments	Effect pigments	Matting agents	Grinding without resin	Grinding with resin	Active substance/ non-volatile matter (%)* ¹⁰	Chemistry	Carrier/solvent
Controlled flocculating									
ANTI-TERRA-250		●		○	●	●	70	Solution of an alkylol ammonium salt of a higher molecular weight acidic polymer	Water
Deflocculating									
BYK-154		●		●	●	○	42	Ammonium salt of an acrylate polymer	Water
DISPERBYK-180		●	○			●	100	Alkylol ammonium salt of a copolymer with acidic groups	
DISPERBYK-184* ¹¹	●	●				●	52	Solution of modified polyurethane	Dipropylene glycol monomethyl ether/propylene glycol 2/1
DISPERBYK-185* ¹²	●	●				●	>90	Solution of modified polyurethane	Polyethylene glycol
DISPERBYK-190* ¹³	●	●	○	●	●		40	Solution of modified styrene maleic acid copolymer	Water
DISPERBYK-191	●	●			●	●	100	Modified polyacrylate	
DISPERBYK-192* ¹⁴			●		●		100	Modified polyether	
DISPERBYK-194 N* ¹⁵	●	●		●	●		57	Solution of modified carboxyl functional polyglycol copolymer	Water
DISPERBYK-199* ¹³	●	●			●	○	40	Solution of modified styrene maleic acid copolymer	Water
DISPERBYK-2010* ¹⁶	●	●			●		40	Solution of modified styrene maleic acid copolymer	Water
DISPERBYK-2012	●	●			●	●	40	Solution of modified styrene maleic acid copolymer	Water
DISPERBYK-2014* ¹²	●	●		●	●	●	100	Copolymer with pigment-affinic groups	
DISPERBYK-2015* ¹³	●	●		●	●		40	Solution of modified styrene maleic acid copolymer	Water
DISPERBYK-2055* ¹²	●	●			●		100	Modified polyacrylate	

● Especially recommended ○ Recommended

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*¹¹ Also available as (organo) tin-free variant ("TF"). Information on tin-free variants can be found in the brochure B-AN 1 at www.byk.com/en/service/downloads/technical-brochures.

*¹² For aqueous and solvent-borne systems

*¹³ Also available as biocide-free variant ("BF"). Information on biocide-free variants can be found in the brochure B-AN 2 at www.byk.com/en/service/downloads/technical-brochures.

*¹⁴ From bio-based raw materials

*¹⁵ Especially for 2-pack systems *¹⁶ Especially for hydrophobic systems



Wetting and dispersing additives (2/2)

Product	Organic pigments, carbon blacks	Inorganic pigments	Effect pigments	Matting agents	Grinding without resin	Grinding with resin	Active substance/ non-volatile matter (%)* ¹⁰	Chemistry	Carrier/solvent
DISPERBYK-2060	●	●	●		●	●	>95	Solution of a copolymer with pigment-affinic groups	Water
DISPERBYK-2062* ¹⁴	○	●	●		●	●	100	Salt of a copolymer with pigment-affinic groups	
DISPERBYK-2080		●		●	●	●	30	Solution of modified styrene maleic acid copolymer	Water

● Especially recommended ○ Recommended

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*¹² For aqueous and solvent-borne systems

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*¹⁴ From bio-based raw materials

*¹⁵ Especially for 2-pack systems *¹⁶ Especially for hydrophobic systems.



Leather treatment

Product			Active substance/ non-volatile matter (%)* ⁶	Chemistry/wax base	Emulsifier	Melting point (wax component) in °C	pH value	Carrier/solvent
	Burnishing effect	Whitening effect						
AQUACER 497	●		50	Paraffin wax	Non-ionic	60	5.5	Water
AQUACER 531	●		45	Modified PE wax	Non-ionic	130	3.5	Water
AQUACER 533	●		40	Modified paraffin wax	Anionic	95	9.5	Water
AQUACER 539	●		35	Modified paraffin wax	Non-ionic	90	9.5	Water
AQUACER 1039	●		35	Modified paraffin wax	Non-ionic	90	9.0	Water
AQUACER 2650* ⁷	●		30	Carnauba wax	Non-ionic	85	4.5	Water
AQUAMAT 208		●	35	Oxidized HDPE wax		135	8.5	Water
AQUAMAT 263		●	35	Oxidized HDPE wax		130	9.5	Water/propylene glycol n-butyl ether 12/1

● Especially recommended ○ Recommended

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*⁷ From bio-based raw materials

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