

PRODUCT GUIDE
**ADDITIVES FOR SOLVENT-BORNE AND HIGH-SOLID
LEATHER FINISHES AND COATED FABRICS**

WAX ADDITIVES

RHEOLOGY
ADDITIVES



WETTING AND
DISPERSING ADDITIVES

AIR RELEASE
ADDITIVES



Wet process – coagulation (1/2)

Pigment stabilization in DMF

Product	Inorganic pigments	Organic pigments	Carbon blacks	Faster dissolution of PU granules	Reduced flooding/floating (post-additive)	Active substance/ non-volatile matter (%)* ¹	Chemistry
BYK-L 9540			●	●		60	Alkanolamine
BYK-P 104 S	●	●	●		●	50	Solution of a low molecular weight, unsaturated polycarboxylic acid polymer and a polysiloxane copolymer
DISPERBYK-108	●	○				> 97	Hydroxy-functional carboxylic acid ester with pigment-affinic groups
DISPERBYK-130			●			51	Solution of polyamine amides of unsaturated polycarboxylic acids
DISPERBYK-185	○	●				> 90	Solution of modified polyurethane

● 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.

Pore control

Product	Long tubelike pores	Large pores: high coagulation speed	Universal: better leveling, anti-cratering, and reduced water marks	Small pores: slow coagulation speed	Active substance/ non-volatile matter (%)* ²	Chemistry
BYK-L 9520	●				87.5	Polyether-modified polysiloxane
BYK-L 9525		●				Polyether-modified polysiloxane
BYK-L 9560			●			Polyether-modified polysiloxane
BYK-L 9565			○		100	Polyether-modified polydimethylsiloxane, hydroxy-functional
BYK-L 9568			○		> 97	Polyether-modified polydimethylsiloxane, hydroxy-functional
VISCOBYK-4015				●		Medium-volatile to highly volatile, aliphatic hydrocarbons with air release component

● Especially recommended ○ Recommended

*² 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.



Wet process – coagulation (2/2)

Air release

Product	Easier deaeration under vacuum		Better self-deaeration after application		Active substance/ non-volatile matter (%)* ³	Chemistry
BYK-070	●		●		9	Solution of foam-destroying polymers and polysiloxanes
BYK-1788	●		○		>98	Combination of surface-active substances
BYK-L 9505	●		○		89.5	Solution of a polyalkylene ether

● Especially recommended ○ Recommended

*³ 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.

Rheology control

Product	Pseudoplastic flow behavior		Active substance/ non-volatile matter (%)* ⁴	Chemistry
RHEOBYK-430	●		30	Solution of a high molecular weight, urea-modified, medium-polarity polyamide

● 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.

PU-resin modification

Product	Softening	Improved pigment acceptance		Active substance/ non-volatile matter (%)* ⁵	Chemistry
		Carbon blacks	Organic pigments		
BYK-L 9540			●	60	Alkanolamine
BYK-L 9560	○				Polyether-modified polydimethylsiloxane
BYK-L 9565	○			100	Polyether-modified polydimethylsiloxane, hydroxy-functional
BYK-L 9568	●			>97	Polyether-modified polydimethylsiloxane, hydroxy-functional
DISPERBYK-130		●		51	Solution of polyamine amides of unsaturated polycarboxylic acids

● Especially recommended ○ Recommended

*⁵ 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.



Dry process – coating (1/4)

Pigment stabilization

Product	Inorganic pigments	Organic pigments	Carbon blacks	Matting agents	Faster dissolution of PU granules	Reduced flooding/floating (post-additive)	For high-solid systems	Active substance/ non-volatile matter (%)* ⁶	Chemistry
BYK-9076	○	○	●					96	Alkylammonium salt of a high molecular weight copolymer
BYK-9077	○	○	●					100	Polyglycol polyester-modified polyalkylene imine
BYK-L 9540			●		●			60	Alkanolamine
BYK-P 104 S						●		50	Solution of a low molecular weight, unsaturated polycarboxylic acid polymer and a polysiloxane copolymer
DISPERBYK-108	●	○						100	Hydroxy-functional carboxylic acid ester with pigment-affinic groups
DISPERBYK-185* ⁷	○	●						>90	Solution of modified polyurethane
DISPERBYK-2014* ⁷		●	●					100	Copolymer with pigment-affinic groups
DISPERBYK-2055* ⁷	●	●	●					100	Modified polyacrylate
DISPERBYK-2155* ⁸	○	○	●				●	100	Polyglycol polyester-modified polyalkylene imine
DISPERBYK-2157* ⁹	●	●	●			●	●	100	Block copolymer with aminic, pigment-affinic groups
DISPERBYK-2159				●				60	Solution of polyester-modified polyalkylene imine
DISPERBYK-2163* ⁸	○	○	○			●		45	Solution of modified polyurethane

● Especially recommended ○ Recommended

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*⁷ For aqueous and solvent-borne systems

*⁸ 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.

*⁹ From bio-based raw materials



Dry process – coating (2/4)

Air release

Product	Easier deaeration under vacuum	Better self-deaeration after application	Active substance/ non-volatile matter (%)* ¹⁰	Chemistry
BYK-039* ¹¹	●	●		Mixture of paraffinic mineral oils and hydrophobic components
BYK-070	●	●	9	Solution of foam-destroying polymers and polysiloxanes
BYK-1788	●	●	>98	Combination of surface-active substances
BYK-1794	●	●	100	Polyolefin copolymer
BYK-L 9505	●	○	89.5	Solution of a polyalkylene ether

● Especially recommended ○ Recommended

*¹⁰ 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.

*¹¹ Only in high-solid PU

Rheology control

Product	Pseudoplastic flow behavior	Thixotropic flow behavior	Viscosity reduction in high-solid PU	Active substance/ non-volatile matter (%)* ¹²	Chemistry
RHEOBYK-430	●			30	Solution of a high molecular weight, urea-modified, medium-polarity polyamide
RHEOBYK-7410 ET		●		40	Solution of a modified urea
VISCOBYK-4015			●		Medium-volatile to highly volatile, aliphatic hydrocarbons with air release component

● Especially recommended ○ Recommended

*¹² 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.



Dry process – coating (3/4)

Surface properties (1/2)

Product	Pull-up effect	Anti-blocking	Matting	Effect pigment orientation	Wetting of (non-) woven, anti-pinhole effect	Wetting of release paper	Slip, anti-blocking, leveling	Water/oil repellency	Easy-to-clean effect	Scratch/abrasion resistance	Soft-touch	For high-solid systems	For PU polymerization processes	Active substance/ non-volatile matter (%) ^{*13}	Chemistry	Melting point (wax component) in °C
BYK-307						○	●							100	Polyether-modified polydimethylsiloxane	
BYK-325 N						○	●	○						52	Solution of a polyether-modified polymethylalkylsiloxane	
BYK-326						○	●	○						> 96	Polyether-modified polymethylalkylsiloxane	
BYK-333						○	●	○						100	Polyether-modified polydimethylsiloxane	
BYK-3760					●	○	●	○		●		●		> 99	Polyether-modified polydimethylsiloxane	
BYK-L 9560					○		●								Polyether-modified polydimethylsiloxane	
BYK-L 9565					●	●	●			○		●	●	100	Polyether-modified polydimethylsiloxane, hydroxy-functional	
BYK-L 9568					○	●	○			○	●	●	●	> 97	Polyether-modified polydimethylsiloxane, hydroxy-functional	
BYK-SILCLEAN 3700 ^{*14}								○	●					25	Solution of a silicone-modified polyacrylate (OH-functional)	
CERAFLOUR 920			●							○				100	Urea-aldehyde resin	
CERAFLOUR 929 N		○	●							●	○			100	Micronized, modified PE wax	115
CERAFLOUR 950	●	●												100	Micronized, modified HD polyethylene wax	135
CERAFLOUR 981 R			●							●				100	Micronized PTFE	
CERAFLOUR 988 ^{*15}	●													100	Micronized, amide-modified polyethylene wax	140
CERAFLOUR 993 ^{*16}	●													100	Micronized amide wax	145
CERAFLOUR 994	●			○										100	Ultra-fine micronized amide wax	145

● Especially recommended ○ Recommended

^{*13} 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.

^{*14} Hydroxy-functional ^{*15} For aqueous and solvent-borne systems ^{*16} From bio-based raw materials



Dry process – coating (4/4)

Surface properties (2/2)

Product	Pull-up effect	Anti-blocking	Matting	Effect pigment orientation	Wetting of (non-) woven, anti-pinhole effect	Wetting of release paper	Slip, anti-blocking, leveling	Water/oil repellency	Easy-to-clean effect	Scratch/abrasion resistance	Soft-touch	For high-solid systems	For PU polymerization processes	Active substance/ non-volatile matter (%) ^{*13}	Chemistry	Melting point (wax component) in °C
CERAFLOUR 1000 ^{*16}		○	●								●			100	Polyester	175
CERAMAT 248		●	●								○			20	Highly concentrated dispersion of a polyethylene wax	110
CERATIX 8561				●										4.7	Ethylene vinyl acetate copolymer wax dispersion (EVA)	105

● Especially recommended ○ Recommended

^{*13} 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.

^{*14} Hydroxy-functional ^{*15} For aqueous and solvent-borne systems ^{*16} From bio-based raw materials

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This issue replaces all previous versions.

