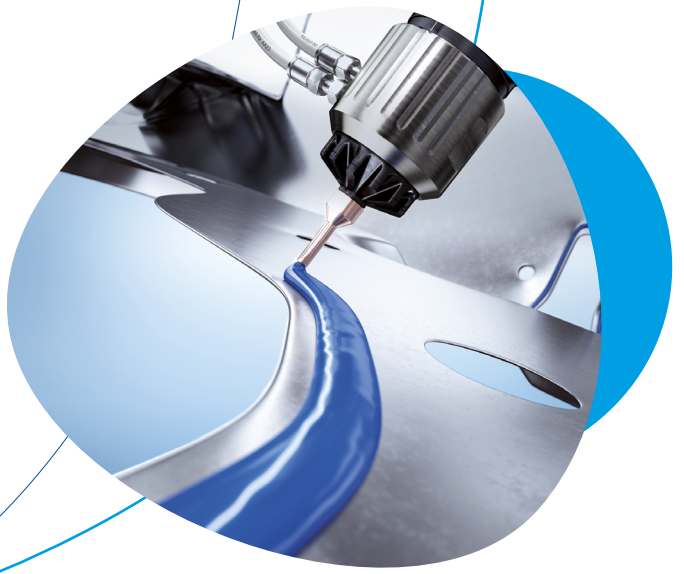
BYK

DEFOAMERS

RHEOLOGY ADDITIVES

PRODUCT GUIDE

ADDITIVES FOR ADHESIVES AND SEALANTS



SURFACE ADDITIVES

WETTING AND DISPERSING ADDITIVES

SPECIALTIES

Adhesives and sealants – Defoamers (1/3)

Product	Aqueous systems			100 %/solvent systems				Hotmelt systems	Chemistry				Non-volatile matter/ active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers		Silicone	Polymer	Mineral oil	VOC-free				
BYK-012	●									●		●	99.9		Compound of polyether with hydrophobic particles	●
BYK-014	●	●	●							●		●	100		Compound of polyether with hydrophobic particles	●
BYK-016	●									●		●	> 98.5		Compound of foam-destroying polymers and hydrophobic solids	●
BYK-017	●								●				> 98		Compound of foam destroying polysiloxanes and hydrophobic solids	●
BYK-022	●	●	●						●			●	≥ 97	Polyglycol	Mixture of foam-destroying polysiloxanes and hydrophobic solids in polyglycol	●
BYK-037	●								●		●	●	> 50	Water	Emulsion of paraffin based mineral oils and hydrophobic components, containing silicone	●
BYK-039	●										●	●			Mixture of paraffin based mineral oils and hydrophobic components	
BYK-044	●								●			●	> 50	Water	Emulsion of hydrophobic particles and polysiloxanes	●
BYK-070								●	●				9	Xylene/ methoxypropyl acetate/ butylacetate 10/2/1	Solution of foam destroying polymers and polysiloxanes	
BYK-088				●					●				3.3	Hydrocarbon mixture (paraffins, naphthenes)	Solution of foam destroying polymers and polysiloxanes	●
BYK-093	●	●	●						●			●	> 98	Polyglycol	Mixture of foam destroying polysiloxanes and hydrophobic solids in polyglycol	●
BYK-094	●		●						●			●	> 96		Compound of foam destroying polysiloxanes and hydrophobic solids	●
BYK-1611	●								●			●	< 50	Water	Emulsion of foam destroying polysiloxanes, hydrophobic solids and emulsifiers	

* For detailed information please check https://www.byk.com/en/service/regulatory-affairs/food-contact or contact our BRIEF team.

Adhesives and sealants – Defoamers (2/3)

Product	Aqueous systems			100 %/solvent systems				Hotmelt systems	Chemistry				Non-volatile matter/ active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers		Silicone	Polymer	Mineral oil	VOC-free				
BYK-1630	●								●		●	●	≥ 97		Mixture of paraffin based mineral oils and hydrophobic components, containing silicone	
BYK-1640	●	●	●							●		●	62	Water	Defoamer compound based on polyamide particles and hyperbranched polymers	
BYK-1641	●	●	●							●		●	30.0	Water	Emulsion of foam destroying polymers and hydrophobic particles; polymer defoamer, containing silicone	
BYK-1650	●	●							●			●	27.5	Water	Emulsion of foam destroying polysiloxanes and hydrophobic particles	●
BYK-1691 SD								●		●		●			Defoamer compound, adsorbed on silicone dioxide	●
BYK-1719	●								●			●	100		Compound of foam destroying polysiloxanes and hydrophobic solids	●
BYK-1724		●							●			●	27	Water	Emulsion of foam destroying polysiloxanes and hydrophobic particles	●
BYK-1740	●									●		●	100		Compound of hydrophobic particles and foam-destroying fat derivatives	●
BYK-1745	●	●								●		●	99.7		Blend of hydrophobic solids and foam-destroying polymers	●
BYK-1765					●					●			100		Polyacrylate	
BYK-1786		●	●						●			●	25	Water	Emulsion of foam destroying polysiloxanes and hydrophobic particles	●
BYK-1790					●					●			100		Polyolefin	●
BYK-1794				●				●		●			100		Solution of polyolefin	●
BYK-1795				●						●			> 99		Solution of polyolefin	●
BYK-1796				●	●		●		●				100		Compound of foam destroying polysiloxanes and hydrophobic solids	

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Adhesives and sealants – Defoamers (3/3)

Product	Aqueous systems			100 %/solvent systems				Hotmelt systems	Chemistry				Non-volatile matter/ active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers		Silicone	Polymer	Mineral oil	VOC-free				
BYK-1799							●		●			●	> 98		Mixture of hydrophobic solids and foam destroying polysiloxanes	
BYK-A 501					●					●					Solution of polyolefin	●
BYK-A 505								●		●		●			Mixture of foam destroying polymers, silicone free	●
BYK-A 525					●				●					White spirit/ methoxypropyl acetate 9/1	Solution of a polyether modified methylalkyl polysiloxane copolymer	
BYK-A 530					●				●				5	Hydrocarbon mixture	Solution of foam destroying polymers and polysiloxanes	●
BYK-A 535				●	●					●			> 99		Solution of foam destroying polymers, silicone free	●
BYK-A 550					●					●					Solution of foam destroying polymers, silicone free	

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Adhesives and sealants – Rheology additives (1/2)

Product	Aqueous systems			100 %/solvent systems				Rheology additive properties										Non-volatile matter/ active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers	Acrylate base	Amide waxes	Castor oil base	Hydrophilic clay	Mixed mineral clay	Organoclay	Polyurethane base	Synthetic clay	Synergist	Urea base	VOC-free				
BYK-AQUAGEL 7100	●	●	●								●							●	100		Highly purified, natural phyllosilicate	
BYK-P 2710					●											●			100		High molecular polyester	
BYK-P 2720					●											●			100		Modified polyethylenimine	
CLAYTONE-40				●	●	●							●						100		Organophilic phyllosilicate	●
GARAMITE-1958	●			●	●	●						●							100		Organophilic phyllosilicate	
GARAMITE-7303				●			●					●							100		Organophilic phyllosilicate	
GARAMITE-7305					●	●						●							100		Organophilic phyllosilicate	
LAPONITE-SL 25	●														●				25	Water	Synthetic (modified) phyllosilicate	
OPTIGEL-WA		●	●								●								100		Phyllosilicate	
OPTIGEL-WX	●	●	●								●								100		Modified/activated phyllosilicate	
RHEOBYK-HV 80	●	●	●					●										●	30	Water	Solution of a polyacrylate	
RHEOBYK-H 3300 VF	●	●	●											●				●	17.5	Water	Solution of a polyurethane	●
RHEOBYK-H 7500 VF	●	●	●											●				●	17.5	Water	Solution of a polyurethane	
RHEOBYK-L 1400 VF	●	●	●											●				●	20	Water	Solution of a polyurethane	
RHEOBYK-R 605						●										●			52		Solution of polyhydroxycarboxylic acid amides	
RHEOBYK-R 606				●	●	●	●									●			100		Polyhydroxycarboxylic acid esters	
RHEOBYK-R 607					●		●									●			100		Solution of polyamine amides of unsaturated polycarboxylic acids	
RHEOBYK-T 1000 VF	●	●	●											●				●	22.5	Water	Solution of a polyurethane	

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Adhesives and sealants – Rheology additives (2/2)

Product	Aqueous systems			100 %/solvent systems				Rheology additive properties										Non-volatile matter/ active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers	Acrylate base	Amide waxes	Castor oil base	Hydrophilic clay	Mixed mineral clay	Organoclay	Polyurethane base	Synthetic clay	Synergist	Urea base	VOC-free				
RHEOBYK-T 1010 VF	●	●	●											●				●	22.5	Water	Solution of a polyurethane	
RHEOBYK-100				●	●		●			●									100		Mixture of castor oil derivative and amide wax	●
RHEOBYK-410					●												●		52	N-Methylpyrrolidone	Solution of a modified urea	
RHEOBYK-425	●																●		50	Polypropylene glycol	Solution of an urea modified polyurethane	●
RHEOBYK-430				●	●	●											●		30	Isobutanol/ solvent naphtha 90/10	Solution of a high molecular urea modified medium polar polyamide	●
RHEOBYK-431						●											●		25	Isobutanol/ monophenyl glycol 80/20	Solution of a high molecular urea modified non polar polyamide	
RHEOBYK-7405						●										●			52	Polypropylene glycol 600	Solution of polyhydroxycarboxylic acid amides	
RHEOBYK-7410 ET				●	●	●											●		40	Amide ether	Solution of a modified urea	●
RHEOBYK-7420 ES	●		●														●		40	Amide ester	Solution of a modified urea	
RHEOBYK-7502							●		●										100		Micronized, modified rheologically active amide	
RHEOBYK-7503							●		●										100		Micronized, rheologically active amide	
RHEOBYK-7590				●	●		●			●									100		Castor oil derivative	●
RHEOBYK-7600	●	●	●											●					15	Water	Solution of a polyurethane	
RHEOBYK-7650	●	●	●											●				●	100		Polyurethane	
RHEOBYK-7670	●	●	●											●				●	100		Polyurethane	
RHEOBYK-7690	●	●	●											●				●	100		Polyurethane	

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Adhesives and sealants – Surface additives

Product	Aqueous systems			100 %/solvent systems				Surface additive properties		Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers	Silicone	Silicone-free			
BYK-307				●	●	●	●	●			Polyether modified polydimethylsiloxane	●
BYK-310					●			●		Xylene	Solution of a polyester modified polydimethylsiloxane	●
BYK-333				●	●	●	●	●			Polyether modified polydimethylsiloxane	●
BYK-348	●	●	●					●			Polyether modified siloxane	●
BYK-349	●	●	●					●			Polyether modified siloxane	●
BYK-378				●	●	●	●	●			Polyether modified dimethylpolysiloxane	●
BYK-3400	●	●	●					●			Combination of surface active substances	●
BYK-3410	●	●	●						●		Solution of sulfosuccinate	●
BYK-3450	●	●						●			Polyether modified siloxane	●
BYK-3451	●	●						●			Polyether modified siloxane	●
BYK-3455	●	●						●			Polyether modified siloxane	●
BYK-DYNWET 800	●	●							●		Alcohol alkoxylates	●
BYK-DYNWET 810	●	●							●		Alcohol alkoxylates	

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Adhesives and sealants – Specialties

Product	Aqueous systems			100 %/solvent systems				Hotmelt systems	Specialties properties						Non-volatile matter/ active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers		Adhesion promoter	Anti-blocking	Compatibilizer	Extending opentime	Water scavenger	VOC-free				
AQUACER 527	●	●							●					●	35	Water	Non-ionic aqueous emulsion based on a modified ethylenevinyl-acetate (EVA) copolymer wax	
AQUACER 531								●		●					45	Water	Non-ionic emulsion based on a modified polyethylene wax	
AQUACER 1031	●	●							●					●	40	Water	Non-ionic emulsion based on an oxidized LD polyethylene wax	●
AQUACER 1040	●	●							●					●	38	Water	Non-ionic/anionic primary polyethylene dispersion	
AQUACER 1063	●	●							●					●	40	Water	Non-ionic/anionic primary polyethylene dispersion	●
BYK-2616				●			●	●					●		> 98		Combination of a specially prepared finely dispersed calcium oxide and a stabilizing wetting agent	●
BYK-4509				●					●						80	Methoxypropanol	Solution of polyester alkyl ammonium salt	●
BYK-4510				●	●				●						80	Methoxypropanol	Solution of a hydroxy functional copolymer with acidic groups	●
BYK-4511					●				●						40	Methoxypropyl acetate	Solution of a copolymer with functional groups	
BYK-4512					●				●						60	Methoxypropyl acetate	Solution of aminofunctional polyether	
BYK-C 8000						●			●								Solution of modified polyether	
BYK-C 8002						●			●								Solution of a copolymer with filler affinic groups	
BYKETOL-PC	●	●	●									●		●	90	Water	Formulation of modified urea	
BYK-P 9908				●							●						Solution of an acrylate copolymer	
BYK-P 9909				●							●						Solution of an ammonium salt of an acrylic acid copolymer	
HORDAMER PE 02	●	●						●	●	●					40	Water	Anionic primary polyethylene dispersion	●

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Adhesives and sealants – Wetting and dispersing additives (1/2)

Product	Aqueous systems			100 %/solvent systems				Wetting and dispersing additive properties							Non-volatile matter/ Active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers	Fatty acid	Hyperbranched polyamines	Phosphoric-/carboxylic-acid esters	Polyacrylates/SMA-based	VOC-free	Acid value (mg KOH/g)	Amine value (mg KOH/g)				
ANTI-TERRA-250	●	●	●					●					46	41	70	Water	Solution of an alkylolammonium salt of a high molecular weight acidic polymer	
BYK-154	●	●	●								●	●			42	Water	Solution of an ammonium salt of an acrylate copolymer	●
BYK-9076				●			●		●				38	44	96		Alkylammonium salt of a high molecular weight copolymer	●
BYK-P 105				●		●		●					365		> 97		Lower molecular weight unsaturated polycarboxylic acid polymer	●
BYK-W 940					●	●		●					150		50		Solution of an unsaturated polycarboxylic acid polymer with a polysiloxane copolymer	
BYK-W 961				●				●					60	60	100		Solution of an alkylammonium salt of a polycarboxylic acid	
BYK-W 966				●	●	●		●					26	19	52	Hydrocarbons	Solution of a salt of unsaturated polyamine amides and acidic polyesters	
BYK-W 969				●	●	●				●			30	30	40		Solution of a hydroxy functional alkylammonium salt of an acidic copolymer	
BYK-W 980				●	●	●		●					40	30	80		Solution of a salt of unsaturated polyamine amides and lower molecular weight acidic polyesters	
BYK-W 985				●						●					10		Solution of an acidic polyester	
BYK-W 996					●					●			71		52		Solution of a copolymer with acidic groups	

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Adhesives and sealants – Wetting and dispersing additives (2/2)

Product	Aqueous systems			100 %/solvent systems				Wetting and dispersing additive properties							Non-volatile matter/ Active substance (%)	Solvent	Description	Focus product for food contact applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane terminated polymers	Fatty acid	Hyperbranched polyamines	Phosphoric-/carboxylic-acid esters	Polyacrylates/SMA-based	VOC-free	Acid value (mg KOH/g)	Amine value (mg KOH/g)				
BYK-W 9010				●	●					●			129		100		Phosphoric acid ester	
BYK-W 9011					●					●			65		100		Copolymer with acidic groups	
DISPERBYK-118				●	●					●			36		80	Methoxypropyl acetate	Solution of polymeric phosphoric acid ester	
DISPERBYK-190	●	●	●								●	●	10		40	Water	Aqueous solution of a polyether-modified styrene maleic anhydride copolymer	●
DISPERBYK-191	●	●	●								●	●	30	20	98		Modified polyacrylate	
DISPERBYK-199	●	●	●								●	●			40	Water	Solution of modified styrene maleic acid copolymer	●
DISPERBYK-2015	●	●	●								●	●	10		40	Water	Solution of modified styrene maleic acid copolymer	
DISPERBYK-2080	●	●	●								●				30	Water	Solution of modified styrene maleic acid copolymer	
DISPERBYK-2152				●	●		●		●						> 99		High molecular polyester	
DISPERBYK-2155							●		●					48	100		Polyglycol polyester modified polyalkylene imine	
DISPERBYK-2157							●		●			●	< 7	35	100		Polymer with pigment affinic groups	
DISPERPLAST-1142							●			●			85				Polar acidic ester of long chain alcohols	
DISPERPLAST-1148							●			●			70				Polymeric wetting and dispersing agent	
DISPERPLAST-I							●	●					58	11			Solution of a partial amide of an unsaturated polycarboxylic acid polymer	

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