



Product Guide AS-G 1

# Additives for Adhesives and Sealants

## Adhesives and Sealants – Defoamers

	Aqueous Systems			100 %/Solvent Systems				Hotmelt Systems	Defoamer Properties				Non-volatile Matter/ Active Substance (%)	Solvent	Description	Focus Product for Food Contact Applications*
	Acrylate	VAE	Polyurethane	Polyurethane	Epoxy	Acrylate	Silane Terminated Polymers		Silicone	Silicone-free	Mineral Oil	VOC-free				
BYK-012	■								■			■	99.9		Mixture of foam destroying polymers and hydrophobic particles, silicone- and mineral oil-free	Y
BYK-014	■	■	■						■			■	100		Mixture of foam-destroying polymers, fat derivatives and hydrophobic particles, silicone- and mineral oil-free	Y
BYK-016	■								■			■	>98.5		Mixture of foam destroying polymers and hydrophobic solids	Y
BYK-017	■								■				>98		Compound of foam destroying polysiloxanes and hydrophobic particles	n.a.
BYK-022	■	■	■						■			■	≥97	Polyglycole	Mixture of hydrophobic solids and foam destroying polysiloxanes in polyglycol	n.a.
BYK-028	■								■			■	>98	Polyglycole	Mixture of hydrophobic solids and foam destroying polysiloxanes in polyglycol	Y
BYK-037	■									■		■	>50	Water	Emulsion of paraffin-based mineral oils and hydrophobic components, containing silicone	n.a.
BYK-039	■									■		■			Mixture of paraffinic mineral oils and hydrophobic components, silicone free	n.a.
BYK-044	■								■			■	>50	Water	Emulsion of hydrophobic particles and polysiloxanes	n.a.
BYK-067 A				■		■			■				89	Propylene glycol	Non aqueous emulsions of a foam destroying polysiloxane	n.a.
BYK-070								■	■				9	Xylene/ Methoxypropylacetate/ Butylacetate 10/2/1	Solutions of foam destroying polymers and polysiloxanes	n.a.
BYK-088				■					■				3.3	Hydrocarbon mixture (Paraffins, naphthenes)	Solutions of foam destroying polymers and polysiloxanes	Y
BYK-093	■	■	■							■		■	>98		Mixture of foam destroying polysiloxanes and hydrophobic solids in polyglycol	N
BYK-094	■		■							■		■	>96		Compound of foam destroying polysiloxanes and hydrophobic particles	Y
BYK-1611	■								■				<50	Water	Emulsion of foam destroying polysiloxanes, hydrophobic solids and emulsifying agents, alkylphenol ethoxylates free, VOC-free	n.a.
BYK-1630	■									■		■	≥97		Blend of paraffin-based mineral oils and hydrophobic components, containing silicone, APEO-free	n.a.
BYK-1640	■	■	■							■		■	62	Water	Defoamer formulation made of polyamide particles and highly branched polymers	Y
BYK-1650	■	■							■			■	27.5	Water	Emulsion of siloxylated polyethers and hydrophobic particles	Y
BYK-1691 SD								■	■			■			Polymer-based defoamer formulation on an inorganic carrier	n.a.
BYK-1719	■								■			■	100		Mixture of hydrophobic solids and foam destroying polysiloxanes	Y
BYK-1724		■							■			■	27	Water	Emulsion of foam destroying polysiloxanes, hydrophobic solids and emulsifying agents, alkylphenol ethoxylates free	n.a.
BYK-1740	■									■		■	100		Mixture of hydrophobic particles and destroying fat derivatives	Y
BYK-1786		■	■						■			■	25	Water	Emulsion of hydrophobic solids and foam-destroying polysiloxanes	n.a.
BYK-1790					■					■			100		Mixture of foam destroying polymers	Y
BYK-1794				■				■	■				100		Combination of foam-destroying polymers	Y
BYK-1795				■					■				>99		Mixture of foam-destroying polymers	N
BYK-1796				■	■		■		■				100		Mix of an organic modified polysiloxane and hydrophobic solids	N
BYK-1799							■		■			■	>98		Mixture of hydrophobic solids and foam destroying polysiloxanes	n.a.
BYK-A 501					■				■						Solution of foam destroying polymers	Y
BYK-A 505								■	■			■			Mixture of foam destroying polymers	n.a.
BYK-A 515							■		■						Solution of foam destroying polymers	n.a.
BYK-A 525					■				■					White spirit/Methoxypropylacetate 9/1	Solution of foam destroying polymers	n.a.
BYK-A 530					■				■				5	Hydrocarbon mixture	Solution of foam destroying polymers and polysiloxanes	Y
BYK-A 535				■	■				■				>99		Solution of foam destroying polymers	Y
BYK-A 550					■				■						Solution of foam destroying polymers	n.a.

\* For detailed information please check <https://www.byk.com/en/service/regulatory-affairs/food-contact> or contact our Brief Team

## Adhesives and Sealants – Rheology Additives

	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	Terminated Polymers	Acrylate Base	Castor Oil Base	Hydroclay	Mixed Mineral Clay	Organoclay	Polyurethane Base	Synthetic Clay	Synergist	Urea Base	VOC-free				
BYK-P 2710					■										■			100		Hyper branched polyester	n.a.
BYK-P 2720					■										■			100		Highly branched polymer amine	n.a.
CLAYTONE-40				■	■	■						■						100		Organophilic bentonite	Y
GARAMITE-1958	■			■	■	■					■							100		Mixed Mineral Thixotrope (MMT) additive for a wide range of solvent-borne systems	n.a.
GARAMITE-7303				■			■				■							100		Mixed Mineral Thixotrope (MMT) additive for low and medium polar systems	n.a.
GARAMITE-7305					■	■					■							100		Mixed Mineral Thixotrope (MMT) additive for polar and medium polar systems	n.a.
LAPONITE-SL 25	■													■				25		Ready-to-use liquid dispersion of synthetic layered silicate modified with an agent (patented)	n.a.
OPTIGEL-WA		■	■							■								100		Activated phyllosilicate	Y
OPTIGEL-WX	■	■	■							■								100		Activated phyllosilicate	N
RHEOBYK-HV 80	■	■	■					■										30	Water	Solution of a polyacrylate (HASE), VOC-free, 30% active substance	n.a.
RHEOBYK-H 3300 VF	■	■	■										■					17.5	Water	Solution of a polyurethane (HEUR), 17.5% active substance in water, VOC-free	Y
RHEOBYK-H 7500 VF	■	■	■										■					17.5	Water	Solution of a polyurethane (HEUR), 17.5% active substance, VOC-free	n.a.
RHEOBYK-L 1400 VF	■	■	■										■					20	Water	Solution of a polyurethane (HEUR), 20.0% active substance, VOC-free	n.a.
RHEOBYK-R 605				■		■									■			52		Solution of polyhydroxycarboxylic acid amides	n.a.
RHEOBYK-R 606				■	■	■	■								■			100		Polyhydroxycarboxylic acid esters	n.a.
RHEOBYK-R 607					■		■								■			100		Solution of amine functional oligomides	n.a.
RHEOBYK-T 1000 VF	■	■	■										■					22.5	Water	Solution of a polyurethane (HEUR), 22.5% active substance, VOC-free	n.a.
RHEOBYK-T 1010 VF	■	■	■										■					22.5	Water	Solution of a polyurethane (HEUR), 22.5% active substance, VOC-, APEO- and tin-free	n.a.
RHEOBYK-100							■		■									100		Castor oil derivate	n.a.
RHEOBYK-410					■												■	52	N-Methylpyrrolidone	Solution of a modified urea	n.a.
RHEOBYK-425	■																■	50	Polypropyleneglycol	Solution of a urea modified polyurethane	Y
RHEOBYK-430				■	■	■											■	30	Isobutanol/ Solventnaphtha 90/10	Solution of high molecular urea modified medium polar polyamide	Y
RHEOBYK-431																	■	25	Isobutanol/ Monophenyl- glycol 80/20	Solution of high molecular urea modified non polar polyamide	n.a.
RHEOBYK-7405				■		■									■			52	Polypropylene glycol 600	Solution of polyhydroxycarboxylic acid amides	n.a.
RHEOBYK-7410 ET				■	■	■											■	40	Amide ether	Solution of a modified urea	n.a.
RHEOBYK-7420 ES	■		■														■	40	Amide ester	Solution of a modified urea	n.a.
RHEOBYK-7590							■		■									100		Castor derived thixotrope	Y
RHEOBYK-7600	■	■	■										■					15	Water	Solution of a hydrophobic modified polyurethane (HEUR)	n.a.
RHEOBYK-7610	■												■					20	Water	Solution of a polyurethane, VOC-free (<1500 ppm), APEO-free, tin-free	n.a.

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## Adhesives and Sealants – Surface Additives

	Description	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 poly-dimethyl-siloxane				■	■	■	■	■			Polyether modified poly-dimethyl-siloxane	Y
BYK-310	Solutions of a polyester modified polydimethylsiloxane					■			■		Xylene	Solutions of a polyester modified polydimethylsiloxane	n.a.
BYK-333	Polyether modified polydimethylsiloxane				■	■		■	■			Polyether modified polydimethylsiloxane	n.a.
BYK-348	Polyether modified siloxane	■	■	■					■			Polyether modified siloxane	Y
BYK-349	Polyether modified siloxane	■	■	■					■			Polyether modified siloxane	Y
BYK-378	Polyether modified dimethylpolysiloxane				■	■	■	■	■			Polyether modified dimethylpolysiloxane	n.a.
BYK-3400	Combination of surface active substances	■	■	■					■			Combination of surface active substances	Y
BYK-3410	Alcohol alkoxyates	■	■	■						■		Alcohol alkoxyates	Y
BYK-3450	Polyether modified siloxanes	■	■						■			Polyether-modified siloxanes	n.a.
BYK-3451	Polyether modified siloxanes	■	■						■			Polyether-modified siloxanes	n.a.
BYK-3455	Polyether modified polydimethylsiloxane	■	■						■			Polyether modified polydimethylsiloxane	n.a.
BYK-DYNWET 800	Alcohol alkoxyates	■	■							■		Alcohol alkoxyates	Y

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## Adhesives and Sealants – Specialties

	Aqueous Systems			100%/Solvent				Specialties Properties						Non-volatile Matter/Active Substance (%)	Solvent	Description	Focus Product for Food Contact Applications*	
	Acrylate	VAE	Poly-urethane	Poly-urethane	Epoxy	Acrylate	Silane Terminated Polymers	Hotmelt Systems	Adhesion Promoter	Anti-blocking	Compatibilizer	Open Time Extension	Water Scavenger					VOC-free
AQUACER 527	■	■							■					■	35	Water	Non-ionic aqueous emulsion based on a modified EVA copolymer wax	n.a.
AQUACER 531								■		■					45	Water	Non-ionic aqueous emulsion based on a modified polyethylene wax	n.a.
AQUACER 1031	■	■							■					■	40	Water	Non-ionic emulsion based on an oxidized LD polyethylene wax	Y
AQUACER 1040	■	■							■					■	38	Water	Modified primary polyethylene dispersion with anionic and non-ionic emulsifiers	n.a.
AQUACER 1063	■	■							■					■	40	Water	Primary dispersion of polyethylene with anionic and non-ionic emulsifiers	Y
BYK-2616				■			■	■							>98		Combination of a specially prepared finely dispersed calcium oxide and a stabilizing wetting agent	n.a.
BYK-4509				■					■						80	Methoxypropanol	Salt of a copolymer with acidic groups	Y
BYK-4510				■	■				■						80	Methoxypropanol	Solution of a copolymer with acidic groups	Y
BYK-4511					■				■						40	Methoxypropylacetate	Solution of a copolymer with functional groups	n.a.
BYK-4512				■	■				■						60	Methoxypropylacetate	Solution of a copolymer with functional groups	n.a.
BYK-C 8000									■								Solution of a reactive copolymer with functional groups	n.a.
BYK-C 8002									■								Solution of a reactive copolymer with filler-affinic groups	n.a.
BYKETOL-PC	■	■	■										■	■	90	Water	Formulation of modified urea	n.a.
BYK-P 9908				■						■							Solution of an acrylate copolymer	n.a.
BYK-P 9909				■						■							Solution of an ammonium salt of an acrylic acid copolymer	n.a.
HORDAMER PE 02	■	■						■	■	■					40	Water	Primary dispersion of polyethylene with an anionic emulsifier	Y

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# Adhesives and Sealants – Wetting and Dispersing Additives

	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	CPT-Polyacrylates	Fatty Acid	Hyper-branched Polyamines	Phosphoric-/Carboxylic-Acid Ester	Poly-acrylates	VOC-free	Acid value [mg KOH/g]	Amine value [mg KOH/g]				
ANTI-TERRA-250	■	■	■						■					46	41	70	Water	Solution of an alkylammonium salt of a high molecular weight acid polymer	n.a.
BYK-154	■	■	■								■	■				42	Water	Solution of an ammonium salt of an acrylate copolymer	Y
BYK-9076				■			■		■					38	44	96		Alkyl ammonium salt of a high molecular weight copolymer	Y
BYK-P 105				■		■			■					365		>97		Low molecular weight unsaturated polycarboxylic acid polymer, anionic	Y
BYK-W 9010				■	■									129		100		Copolymer with acidic groups	n.a.
BYK-W 9011					■									65		100		Copolymer with acidic groups	n.a.
BYK-W 940					■	■			■					150		50		Solution of an unsaturated polycarboxylic acid polymer with a polysiloxane copolymer	n.a.
BYK-W 961				■					■					60	60	100		Solution of an alkylammonium salt of a polycarboxylic acid	n.a.
BYK-W 966				■	■	■			■					26	19	52	Hydrocarbons	Solution of a salt of unsaturated fatty acid polyamineamides and acid polyesters	n.a.
BYK-W 969				■	■	■								30	30	40		Solution of a hydroxy functional alkylammonium salt of an acidic copolymer	n.a.
BYK-W 980				■	■	■			■					40	30	80		Solution of a salt of unsaturated fatty acid polyamine amides and acidic polyesters	n.a.
BYK-W 985				■												10		Solution of acidic polyester	n.a.
BYK-W 996					■									71		52		Solution of a copolymer with acidic groups	n.a.
DISPERBYK-118				■	■									36		80	Methoxypropylacetate	Solution of a linear polymer with highly polar, different pigment affinic groups	n.a.
DISPERBYK-190	■	■	■											10		40	Water	Solution of a high molecular weight block copolymer with pigment affinic groups	Y
DISPERBYK-191	■	■	■											30	20	98		Copolymer with pigment affinic groups	n.a.
DISPERBYK-199	■	■	■													40	Water	Solution of a copolymer with pigment affinic groups	n.a.
DISPERBYK-2015	■	■	■					■						10		40	Water	Solution of a structured acrylate copolymer with pigment affinic groups	n.a.
DISPERBYK-2080	■	■	■													30	Water	Solution of a copolymer with pigment affinic groups	n.a.
DISPERBYK-2152				■	■		■		■							>99		Hyperbranched polyester	n.a.
DISPERBYK-2155							■		■						48	100		Block-copolymer with pigment affinic groups	n.a.
DISPERBYK-2157							■		■			■	<7	35	100			Block copolymer with aminic, pigment-affinic groups	n.a.
DISPERPLAST-1142							■						85					Polar acidic ester of long chain alcohols	n.a.
DISPERPLAST-1148							■						70					Polymeric wetting and dispersing agent	n.a.
DISPERPLAST-I							■		■				58	11				Solution of a partial amide of an unsaturated polycarboxylic acid polymer	n.a.

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**BYK-Chemie GmbH**  
 P.O. Box 10 02 45  
 46462 Wesel  
 Germany  
 Tel +49 281 670-0  
 Fax +49 281 65735

[info@byk.com](mailto:info@byk.com)  
[www.byk.com](http://www.byk.com)



Additive Guide



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