



Additive Selection Chart GA-AG 1

Additives for Printing Inks and Inkjet Inks

January 2019



Additives for Printing Inks and Inkjet Inks

Packaging Gravure and Flexographic Inks

	Pigment Stabilization, Gloss, Transparency			Rheology	Substrate Wetting	Leveling	Increase of Surface Energy	Surface Slip	Anti-slip	Abrasion Resistance	Water Resistance	Defoaming	Matting
	Inorganic Pigments	Organic Pigments	Pigment Concentrates										
Solvent-borne	DISPERBYK-111 DISPERBYK-2096 ANTI-TERRA U 100 DISPERBYK-180	DISPERBYK-108 DISPERBYK-2023 DISPERBYK-2205 DISPERBYK-2155 BYK-9076 BYK-9077 BYK-SYNERGIST-2100 BYK-SYNERGIST-2105 DISPERBYK-2117 DISPERBYK-2118 DISPERBYK-2157 (for non-polar systems)	DISPERBYK-108 DISPERBYK-2155 DISPERBYK-2013 DISPERBYK-2157 (for non-polar systems)	RHEOBYK-7410 ET TIXOGEL-EZ 100	Silicone: BYK-307 BYK-333 BYK-378 Silicone-free: BYK-DYNWET 800 N	BYK-361 N	BYK-3560 BYK-3565	Silicone: BYK-307 BYK-333 BYK-377 BYK-378 Wax: CERAFLOR 991		Silicone: BYK-333 BYK-307 BYK-378 Wax: CERAFLOR 929 CERAFLOR 981 CERAFLOR 996		Silicone: BYK-088 BYK-065 BYK-066 N BYK-A 530 Silicone-free: BYK-1752 BYK-1759	CERAFLOR 1000
				RHEOBYK-R 606 RHEOBYK-R 607 (Combination with silica and phyllosilicates)									CERAFLOR 921 (USA only)
Aqueous	DISPERBYK-180 DISPERBYK-190	DISPERBYK-190 DISPERBYK-193 DISPERBYK-2013 DISPERBYK-192	Grinding with resin: DISPERBYK-190 DISPERBYK-193 DISPERBYK-2013	RHEOBYK-425 RHEOBYK-7420 ES	Silicone: BYK-333 BYK-3450 BYK-3451 BYK-3455 BYK-347 Silicone-free: BYK-DYNWET 800 N	BYK-381	BYK-3560 BYK-3565	Silicone: BYK-307 BYK-333 BYK-378 Wax: AQUACER 539 HORDAMER PE 35	AQUACER 593	Silicone: BYK-307 Wax: AQUACER 532 HORDAMER PE 35 AQUACER 8059 (USA only)	AQUACER 497 AQUACER 539	Silicone: BYK-017 BYK-024 BYK-094 BYK-021 BYK-022 BYK-044 BYK-1719 Silicone-free: BYK-012 BYK-016	CERAFLOR 1000 AQUAMAT-208 CERAFLOR 929
			Grinding without resin: DISPERBYK-190 DISPERBYK-192 DISPERBYK-2013 DISPERBYK-2015										AQUAMAT 208 CERAFLOR 929
UV 100 %	DISPERBYK-111 DISPERBYK-2013 DISPERBYK-2008 DISPERBYK-2009 (for matting agents)	DISPERBYK-168 DISPERBYK-2013 BYK-9076 BYK-9077 DISPERBYK-2155	BYKJET-9152 DISPERBYK-168 DISPERBYK-2013 DISPERBYK-2155	RHEOBYK-R 606 RHEOBYK-R 607 (Combination with silica and phyllosilicates)	Silicone: BYK-377 BYK-3760 BYK-UV 3500 BYK-333 BYK-378 BYK-3455	Silicone: BYK-307 BYK-3760 BYK-333 BYK-378 BYK-3455 Silicone-free: BYK-361 N BYK-381	BYK-3560 BYK-3565	Silicone: BYK-307 BYK-377 BYK-3760 Wax: CERAFLOR 950 CERAFLOR 991		Silicone: BYK-377 BYK-UV 3510 Wax: CERAFLOR 950 CERAFLOR 991		Silicone: BYK-088 BYK-1797 BYK-1799 BYK-A 530 Silicone-free: BYK-1752 BYK-1790 BYK-1791 BYK-1794	CERAFLOR 1000

First recommendation Second recommendation



Additives for Printing Inks and Inkjet Inks

Overprint Varnishes

	Substrate Wetting	Leveling	Surface Slip	Anti-slip	Abrasion Resistance	Water Resistance	Defoaming	Matting	Rheology
Aqueous	Silicone: BYK-348 BYK-3450 BYK-3451 BYK-345 Silicone-free: BYK-DYNWET 800 N	Silicone: BYK-333 BYK-307 BYK-378 Silicone-free: BYK-381	Silicone: BYK-307 BYK-333 BYK-378 Waxes: AQUACER 539 HORDAMER PE 35	AQUACER 593	Silicone: BYK-333 BYK-378 Waxes: AQUACER 530 AQUACER 532 HORDAMER PE 35 AQUACER 8059 (USA only) CERAFLOUR 929	AQUACER 497 AQUACER 539	Silicone: BYK-019 BYK-1719 BYK-021 BYK-022 BYK-1785 Silicone-free: BYK-016	CERAFLOUR 1000	RHEOBYK-425 RHEOBYK-7420 ES
UV, aqueous	Silicone: BYK-3455 Silicone-free: BYK-DYNWET 800 N	Silicone: BYK-345 Silicone-free: BYK-381	Silicone: BYK-307 BYK-333 BYK-378 Waxes: AQUACER 539 HORDAMER PE 35	AQUACER 593	Silicone: BYK-333 BYK-UV 3500 BYK-378 Waxes: AQUACER 532	AQUACER 497 AQUACER 539	Silicone: BYK-019 BYK-1719 BYK-094	CERAFLOUR 1000	RHEOBYK-425 RHEOBYK-7420 ES
UV 100 %	Silicone: BYK-377 BYK-UV 3500 BYK-UV 3510 BYK-UV 3505 Silicone-free: BYK-381	Silicone: BYK-377 BYK-3455 BYK-345 BYK-UV 3505 Silicone-free: BYK-354 BYK-381	Silicone: BYK-377 BYK-3760 BYK-307 BYK-UV 3500 BYK-UV 3505 Waxes: CERAFLOUR 950 CERAFLOUR 991		Silicone: BYK-377 BYK-UV 3510 Waxes: CERAFLOUR 950 CERAFLOUR 991		Silicone: BYK-019 BYK-088 Silicone-free: BYK-1752 BYK-1790 BYK-1794	CERAFLOUR 1000	RHEOBYK-7410 ET

First recommendation Second recommendation



Additives for Printing Inks and Inkjet Inks

Inkjet Inks: Drop-on-Demand (DOD): "Pigment Stabilization"

	Aqueous	„Strong“ Solvent and Continous Inkjet	“Eco” Solvent (“Mild” Solvent)	UV, solvent-free
Pigment Stabilization	Cyan: (PB 15:3/PB 15:4) BYKJET-9152 DISPERBYK-190 BYKJET-9151 BYKJET-9170	Cyan: (PB 15:3/PB 15:4) BYKJET-9131 BYKJET-9132 BYKJET-9151 DISPERBYK-161 DISPERBYK-163	Cyan: (PB 15:3/PB 15:4) BYKJET-9151 BYKJET-9152 DISPERBYK-2200 DISPERBYK-2205	Cyan: (PB 15:3/PB 15:4) BYKJET-9151 BYKJET-9152 BYKJET-9150 DISPERBYK-168
	Magenta: (e.g., PV 19/PR 122/...) BYKJET-9170 BYKJET-9171 DISPERBYK-190 BYKJET-9151	Magenta: (e.g., PV 19/PR 122/...) BYKJET-9131 BYKJET-9132 BYKJET-9152 DISPERBYK-161 DISPERBYK-163	Magenta: (e.g., PV 19/PR 122/...) BYKJET-9152 BYKJET-9131 BYKJET-9151 DISPERBYK-2001	Magenta: (e.g., PV 19/PR 122/...) BYKJET-9151 BYKJET-9152 BYKJET-9150 DISPERBYK-168
	Yellow: (e.g., PY 74/PY 139/PY 151/PY 155/...) BYKJET-9170 BYKJET-9171 DISPERBYK-190 BYKJET-9151	Yellow: (e.g., PY 74/PY 139/PY 151/PY 155/...) BYKJET-9131 BYKJET-9132 BYKJET-9152	Yellow: (e.g., PY 74/PY 139/PY 151/PY 155/...) BYKJET-9131 BYKJET-9151 BYKJET-9152	Yellow: (e.g., PY 74/PY 139/PY 151/PY 155/...) BYKJET-9151 BYKJET-9152 BYKJET-9150 DISPERBYK-168
	Yellow: (PY 150) BYKJET-9170	Yellow: (PY 150) DISPERBYK-2200	Yellow: (PY 150) DISPERBYK-2200	Yellow: (PY 150) DISPERBYK-168
	Black: (PBk 7) BYKJET-9151 BYKJET-9152 BYKJET-9170 BYKJET-9171 DISPERBYK-190	Black: (PBk 7) BYK-9076 BYK-9077 BYKJET-9151 BYKJET-9152 DISPERBYK-2200	Black: (PBk 7) BYKJET-9152 DISPERBYK-2200 BYKJET-9151 DISPERBYK-2155	Black: (PBk 7) BYKJET-9151 DISPERBYK-168 BYKJET-9150 BYKJET-9152
	White: (PW 6) DISPERBYK-2010 DISPERBYK-190	White: (PW 6) DISPERBYK-111 DISPERBYK-110 DISPERBYK-118	White: (PW 6) DISPERBYK-2200 DISPERBYK-111 DISPERBYK-2152	White: (PW 6) DISPERBYK-111 DISPERBYK-2152 BYKJET-9150
	Green/Orange: (e.g., PG 7/PG 36/PO 34/PO 43/...) BYKJET-9171 DISPERBYK-190	Green/Orange: (e.g., PG 7/PG 36/PO 34/PO 43/...)	Green/Orange: (e.g., PG 7/PG 36/PO 34/PO 43/...)	Green/Orange: (e.g., PG 7/PG 36/PO 34/PO 43/...)



Additives for Printing Inks and Inkjet Inks

Inkjet Inks: „Drop-on-Demand (DOD)“

	Aqueous	„Strong“ Solvent and Continuous Inkjet	„Eco“ Solvent (“Mild” Solvent)	UV, solvent-free
Leveling	BYK-3455	BYK-361 N BYK-315 N	BYK-361 N BYK-315 N	BYK-361 N BYK-3441 BYK-3455 BYK-UV 3530
Substrate Wetting (Reduction of Static Surface Tension)	BYK-348 BYK-3450 BYK-3451 BYK-3455	BYK-333 BYK-378	BYK-333 BYK-378 BYK-3550	BYK-UV 3530 BYK-UV 3575 BYK-UV 3500 BYK-UV 3505
Drop Formation (Reduction of Dynamic Surface Tension)	BYK-DYNWET 800 N BYK-3400 BYK-3410 BYK-3455			
Surface Slip	BYK-333 BYK-378	BYK-333 BYK-378	BYK-333 BYK-378	BYK-378 BYK-UV 3500 BYK-UV 3505 BYK-UV 3575
Scratch Resistance	AQUACER 513 AQUACER 530 AQUACER 593 AQUACER 531 NANOBYK-3620		NANOBYK-3650 NANOBYK-3652	NANOBYK-3605
Defoaming	BYK-019 BYK-028 BYK-1770	BYK-066 N	BYK-066 N	BYK-1790 BYK-1798 BYK- A 535
Humectant	BYKETOL-PC			
	First recommendation Second recommendation			



Inkjet Inks for Ceramic Substrates

	DOD, Solvent-borne	Digital Glaze (Water-borne)
Pigment Stabilization	Low polar inks BYKJET-9142 DISPERBYK-106 ANTI-TERRA-U 100 DISPERBYK-102 Medium to high polar inks DISPERBYK-180 BYKJET-9133 BYKJET-9151 DISPERBYK-111 DISPERBYK-145	DISPERBYK-2010 DISPERBYK-2015
Substrate Wetting (Static Surface Tension Control)	BYK-333 BYK-307 BYK-378	BYK-348 BYK-3450 BYK-3451 BYK-DYNWET 800 N
Defoaming	BYK-065 BYK-066 N	
First recommendation Second recommendation		

For more products regarding ceramic inkjet inks please contact info@byk.com.

Additives for Printing Inks and Inkjet Inks

Disperse Dyes

e. g. Disperse Red 60, Disperse Yellow 54, Disperse Blue 359

Pigment Stabilization	BYKJET-9171 DISPERBYK-190 DISPERBYK-2015 BYKJET-9152 DISPERBYK-2010
Substrate Wetting	BYK-3410 BYK-DYNWET 800 N BYK-348 BYK-3455
First recommendation Second recommendation	

For more products for the use in disperse dyes, please contact info@byk.com.

Offset Inks

Rheology	CLAYTONE-40 CLAYTONE-AF CLAYTONE-HT
Abrasion Resistance	CERAFLOUR 991 MINERPOL 221 CERAFLOUR 981
First recommendation Second recommendation	

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

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Additive Guide



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This issue replaces all previous versions – Printed in Germany