

ADDITIVE SELECTION CHART ADDITIVES FOR PRINTING INKS

PIGMENT STABILIZING



SCRATCHPROOF

LEVELING



Packaging gravure and flexographic inks (1/3)

Application	Solvent-borne	Aqueous	UV 100 %
Pigment stabilization, gloss, transparency			
Inorganic pigments	DISPERBYK-111 ● DISPERBYK-2096 ● ANTI-TERRA-U 100 ○ BYK-W 9011 ○ DISPERBYK-180 ○	DISPERBYK-180 ● DISPERBYK-190 ●	DISPERBYK-111 ● DISPERBYK-2013 ● DISPERBYK-2030 ● DISPERBYK-2158 ○ For matting agents: DISPERBYK-2008 ● DISPERBYK-2009 ●
Organic pigments	DISPERBYK-108 ● DISPERBYK-2023 ● DISPERBYK-2205 ● DISPERBYK-2155 ● DISPERBYK-2155 TF*1 ● BYK-9076 ○ BYK-9077 ○ BYK-SYNERGIST 2100 ○ BYK-SYNERGIST 2105 ○ DISPERBYK-2117 ○ DISPERBYK-2118 ○ For non-polar systems: DISPERBYK-2157 ●	DISPERBYK-190 ● DISPERBYK-193 ● DISPERBYK-2014 ● DISPERBYK-192 ○	DISPERBYK-168 ● DISPERBYK-168 TF*1 ● DISPERBYK-2013 ● DISPERBYK-2030 ● BYK-9076 ○ BYK-9077 ○ DISPERBYK-2155 ○ DISPERBYK-2155 TF*1 ○
Pigment concentrates	DISPERBYK-108 ● DISPERBYK-2023 ● DISPERBYK-2155 ● DISPERBYK-2155 TF*1 ● DISPERBYK-2013 ○ For non-polar systems: DISPERBYK-2157 ●	Grinding with resin: DISPERBYK-190 ● DISPERBYK-193 ● DISPERBYK-2015 ○ Grinding without resin: DISPERBYK-190 ● DISPERBYK-2014 ● DISPERBYK-192 ○ DISPERBYK-2015 ○	DISPERBYK-168 ● DISPERBYK-168 TF*1 ● DISPERBYK-2013 ● DISPERBYK-2030 ● DISPERBYK-2155 ○ DISPERBYK-2155 TF*1 ○

● First recommendation ○ Second recommendation Unless otherwise stated, all silicone-containing additives have a cyclic siloxane content D4 of less than 0.01 % and D5 and D6 of less than 0.1 % each.

*1 (Organo) Tin-free version: Future-oriented variant of the original product. Originals are still available.

*2 Content of cyclic siloxanes \geq 0.1 %. *3 Only available in North America



Packaging gravure and flexographic inks (2/3)

Application	Solvent-borne	Aqueous	UV 100 %
Rheology	CLAYTONE-AF ● RHEOBYK-7410 ET ● CLAYTONE-HY ○ Combination with silica and phyllosilicates: RHEOBYK-R 606 ○ RHEOBYK-R 607 ○	RHEOBYK-425 ● RHEOBYK-7420 ES ○	Combination with silica and phyllosilicates: RHEOBYK-R 606 ○ RHEOBYK-R 607 ○
Substrate wetting	Silicone: BYK-307*2/BYK-3762 ● BYK-333 ● BYK-3760 ● BYK-378*2/BYK-3764 ○ Silicone-free: BYK-DYNWET 800 ● BYK-DYNWET 810 ●	Silicone: BYK-333 ● BYK-3450 ● BYK-3451 ● BYK-347 ○ BYK-3455 ○ BYK-3760 ○ Silicone-free: BYK-DYNWET 800 ● BYK-DYNWET 810 ●	Silicone: BYK-377*2/BYK-3771 ● BYK-3760 ● BYK-UV 3500*2 ● BYK-333 ○ BYK-378*2/BYK-3764 ○ BYK-379 ○
Leveling	Silicone-free: BYK-361 N ●	Silicone-free: BYK-381 ●	Silicone: BYK-307*2/BYK-3762 ● BYK-3760 ● BYK-333 ○ BYK-378*2/BYK-3764 ○ BYK-3455 ○ Silicone-free: BYK-361 N ● BYK-381 ●
Increase of surface energy	BYK-3560 ● BYK-3565 ● BYK-3566 ●	BYK-3560 ● BYK-3565 ● BYK-3566 ●	BYK-3560 ● BYK-3565 ● BYK-3566 ●
Surface slip	Silicone: BYK-307*2/BYK-3762 ● BYK-333 ○ BYK-378*2/BYK-3764 ○ BYK-3760 ○ Wax: CERACOL 83 ○ CERAFLLOUR 991 ○ CERAFLLOUR 999 ○	Silicone: BYK-307*2/BYK-3762 ● BYK-333 ○ BYK-378*2/BYK-3764 ○ Wax: AQUACER 539 ● CERAFLLOUR 950 ○ CERAFLLOUR 991 ○	Silicone: BYK-307*2/BYK-3762 ● BYK-377*2/BYK-3771 ● BYK-UV 3590 ● BYK-UV 3595 ● BYK-3760 ○ Wax: CERAFLLOUR 950 ● CERAFLLOUR 991 ○

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Packaging gravure and flexographic inks (3/3)

Application	Solvent-borne	Aqueous	UV 100 %
Tape release			BYK-UV 3590 ● BYK-UV 3595 ●
Anti-slip	CERAFLOUR 970 ● CERAFLOUR 1001 ○ CERAFLOUR 1002 ○	AQUACER 593 ● AQUACER 527 ○	CERAFLOUR 970 ●
Abrasion resistance	Silicone: BYK-333 ● BYK-307*/BYK-3762 ○ BYK-378*/BYK-3764 ○ Wax: CERACOL 83 ○ CERAFLOUR 929 N ○ CERAFLOUR 981 R ○ CERAFLOUR 996 R ○ CERAFLOUR 999 ○	Silicone: BYK-307*/BYK-3762 ○ Wax: AQUACER 532 ● AQUAMAT 208 ○ AQUACER 8059* ³ ○ CERAFLOUR 929 N ○ HORDAMER PE 35 ○	Silicone: BYK-377*/BYK-3771 ● BYK-UV 3510*/BYK-UV 3511 ● Wax: CERAFLOUR 950 ● CERAFLOUR 991 ○
Water resistance		AQUACER 497 ● AQUACER 539 ●	
Defoaming	Silicone: BYK-088 ● BYK-A 530 ○ Silicone-free: BYK-1759 ●	Silicone: BYK-017*/BYK-1707 ● BYK-024 ● BYK-094 ● BYK-021 ○ BYK-022 ○ BYK-044 ○ BYK-1719 ○ BYK-1780 ○ Silicone-free: BYK-012 ○ BYK-016 ○ BYK-1642 ○	Silicone: BYK-088 ● BYK-1797 ○ BYK-1799 ○ BYK-A 530 ○ Silicone-free: BYK-1790 ● BYK-1791 ● BYK-1794 ○
Matting	CERAFLOUR 1000 ● CERAFLOUR 1001 ● CERAFLOUR 1002 ● CERAFLOUR 921* ³ ○	CERAFLOUR 1000 ● CERAFLOUR 1001 ● CERAFLOUR 1002 ● AQUAMAT 208 ○ CERAFLOUR 929 N ○	CERAFLOUR 1000 ● CERAFLOUR 1001 ● CERAFLOUR 1002 ●

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Overprint varnishes (1/2)

Application	Aqueous	UV, aqueous	UV 100%
Substrate wetting	Silicone: BYK-348 ● BYK-3450 ● BYK-3451 ● BYK-345 ○	Silicone: BYK-3455 ●	Silicone: BYK-377*4/BYK-3771 ● BYK-379 ● BYK-UV 3500*4 ● BYK-UV 3510*4/BYK-UV 3511 ● BYK-UV 3505 ○
	Silicone-free: BYK-DYNWET 800 ○ BYK-DYNWET 810 ○	Silicone-free: BYK-DYNWET 800 ● BYK-DYNWET 810 ●	Silicone-free: BYK-381 ○
Leveling	Silicone: BYK-333 ● BYK-307*4/BYK-3762 ○ BYK-378*4/BYK-3764 ○	Silicone: BYK-345 ●	Silicone: BYK-377*4/BYK-3771 ● BYK-3455 ● BYK-345 ○ BYK-UV 3505 ○
	Silicone-free: BYK-381 ●	Silicone-free: BYK-381 ●	Silicone-free: BYK-354 ○ BYK-381 ○
Surface slip	Silicone: BYK-307*4/BYK-3762 ● BYK-333 ○ BYK-378*4/BYK-3764 ○	Silicone: BYK-307*4/BYK-3762 ● BYK-333 ● BYK-378*4/BYK-3764 ○	Silicone: BYK-377*4/BYK-3771 ● BYK-379 ● BYK-3760 ● BYK-UV 3590 ● BYK-UV 3595 ● BYK-307*4/BYK-3762 ○ BYK-UV 3500*4 ○ BYK-UV 3505 ○
	Wax: AQUACER 539 ● CERAFLOR 950 ○ CERAFLOR 991 ○ HORDAMER PE 35 ○	Wax: AQUACER 539 ● HORDAMER PE 35 ○	Wax: CERAFLOR 950 ● CERAFLOR 991 ●
Tape release			BYK-UV 3590 ● BYK-UV 3595 ●
Anti-slip	AQUACER 593 ● AQUACER 527 ○	AQUACER 593 ●	CERAFLOR 970 ●

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*4 Content of cyclic siloxanes \geq 0.1 %.

*5 Only available in North America



Overprint varnishes (2/2)

Application	Aqueous	UV, aqueous	UV 100%
Abrasion resistance	<p>Silicone: BYK-333 ● BYK-378*4/BYK-3764 ○</p> <p>Wax: AQUACER 530 ● AQUACER 532 ○ AQUACER 8059*5 ○ CERAFLOR 929 N ○ HORDAMER PE 35 ○</p>	<p>Silicone: BYK-333 ● BYK-UV 3500*4 ● BYK-378*4/BYK-3764 ○</p> <p>Wax: AQUACER 532 ●</p>	<p>Silicone: BYK-377*4/BYK-3771 ● BYK-UV 3510*4/BYK-UV 3511 ●</p> <p>Wax: CERAFLOR 950 ● CERAFLOR 991 ○</p>
Water resistance	AQUACER 497 ● AQUACER 539 ○	AQUACER 497 ● AQUACER 539 ○	
Defoaming	<p>Silicone: BYK-019*4/BYK-1709 ● BYK-1719 ● BYK-021 ○ BYK-022 ○ BYK-1780 ○ BYK-1785 ○</p> <p>Silicone-free: BYK-016 ● BYK-1642 ○</p>	<p>Silicone: BYK-019*4/BYK-1709 ● BYK-1719 ● BYK-094 ○</p>	<p>Silicone: BYK-019*4/BYK-1709 ● BYK-088 ○</p> <p>Silicone-free: BYK-1790 ● BYK-1794 ●</p>
Matting	CERAFLOR 1000 ● CERAFLOR 1001 ● CERAFLOR 1002 ●	CERAFLOR 1000 ● CERAFLOR 1001 ● CERAFLOR 1002 ●	CERAFLOR 1000 ● CERAFLOR 1001 ● CERAFLOR 1002 ●
Rheology	RHEOBYK-425 ● RHEOBYK-7420 ES ●	RHEOBYK-425 ● RHEOBYK-7420 ES ●	RHEOBYK-7410 ET ●

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*5 Only available in North America



Offset inks

Application	Offset inks
Rheology	CLAYTONE-40 ● CLAYTONE-AF ● CLAYTONE-HT ● CLAYTONE-PI ●
Abrasion resistance	CERAFLOUR 991 ● CERAFLOUR 981 R ○

● First recommendation ○ Second recommendation

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