

# ADDITIVE SELECTION CHART AQUEOUS INDUSTRIAL COATINGS

ANTI-FLOATING



SUBSTRATE WETTING

DEFOAMING



## Aqueous industrial coatings (1/3)

Application	Emulsion systems alkyd/acrylic/polyurethane	Water reducible systems acrylic/alkyd/polyester	2-pack polyurethanes	2-pack epoxies	UV-curing systems
Pigment stabilization, anti-flood, anti-float	<b>Primer surfacers</b>				
	Grind with resin: ANTI-TERRA-250 DISPERBYK-2012 DISPERBYK-2080	Grind with resin: ANTI-TERRA-250 DISPERBYK-180 DISPERBYK-2012 DISPERBYK-2080	Grind with resin: ANTI-TERRA-250 DISPERBYK-180 DISPERBYK-2012 DISPERBYK-2080	Grind with resin: DISPERBYK-199 BF*1 DISPERBYK-2012	
	Resin-free grind: DISPERBYK-199 BF*1 DISPERBYK-2010 DISPERBYK-2012	Resin-free grind: DISPERBYK-2010 DISPERBYK-2012	Resin-free grind: DISPERBYK-2010 DISPERBYK-2012	Resin-free grind: DISPERBYK-2010 DISPERBYK-2012	
	<b>Topcoats</b>				
	Grind with resin: DISPERBYK-2012 DISPERBYK-2055	Grind with resin: DISPERBYK-180*2 DISPERBYK-2012 DISPERBYK-2055	Grind with resin: DISPERBYK-180*2 DISPERBYK-2012 DISPERBYK-2019 DISPERBYK-2055	Grind with resin: DISPERBYK-194 N DISPERBYK-2012 DISPERBYK-2019 DISPERBYK-2055	Grind with resin: DISPERBYK-180*2 DISPERBYK-2012 DISPERBYK-2013
	Resin-free grind: DISPERBYK-190 BF*1 DISPERBYK-191 DISPERBYK-2010 DISPERBYK-2012	Resin-free grind: DISPERBYK-190 BF*1 DISPERBYK-191 DISPERBYK-2010 DISPERBYK-2012	Resin-free grind: DISPERBYK-190 BF*1 DISPERBYK-194 N DISPERBYK-2010 DISPERBYK-2012		Resin-free grind: DISPERBYK-190 BF*1 DISPERBYK-2010 DISPERBYK-2012
<b>Effect pigments</b>					
Resin-free slurries: DISPERBYK-180 DISPERBYK-192 DISPERBYK-2060	Resin-free slurries: DISPERBYK-180 DISPERBYK-192 DISPERBYK-2060	Resin-free slurries: DISPERBYK-180 DISPERBYK-192 DISPERBYK-2060		Resin-free slurries: DISPERBYK-180 DISPERBYK-192	
Rheology modifier, anti-sagging, anti-settling	OPTIGEL-WM OPTIGEL-WX RHEOBYK-7650 RHEOBYK-7670 RHEOBYK-7690 RHEOBYK-D 420 RHEOBYK-H 7625 VF RHEOBYK-L 1400 VF	OPTIGEL-WM OPTIGEL-WX RHEOBYK-D 420	OPTIGEL-WM OPTIGEL-WX RHEOBYK-7610 RHEOBYK-7650 RHEOBYK-7670 RHEOBYK-7690 RHEOBYK-D 420 RHEOBYK-H 7625 VF RHEOBYK-L 1400 VF	OPTIGEL-WM OPTIGEL-WX RHEOBYK-440 RHEOBYK-D 420	RHEOBYK-7650 RHEOBYK-7670 RHEOBYK-7690 RHEOBYK-D 420 RHEOBYK-H 7625 VF RHEOBYK-L 1400 VF
Orientation of effect pigments	AQUATIX 8421 LAPONITE-RD	AQUATIX 8421	AQUATIX 8421 LAPONITE-RD		

Unless otherwise stated, all silicone-containing additives have a cyclic siloxane content (D4, D5, D6) of less than 0.1 % each.

\*1 Biocide-free version: Future-oriented variant of the original product. Originals are still available.

\*2 Only for inorganic pigments

\*3 For baking systems



## Aqueous industrial coatings (2/3)

Application	Emulsion systems alkyd/acrylic/polyurethane	Water reducible systems acrylic/alkyd/polyester	2-pack polyurethanes	2-pack epoxies	UV-curing systems
Leveling	<b>Silicone:</b> BYK-3480 BYK-3481 BYK-3565	<b>Silicone:</b> BYK-3480 BYK-3481 BYK-3565	<b>Silicone:</b> BYK-3480 BYK-3481 BYK-3565	<b>Silicone:</b> BYK-3480 BYK-3481 BYK-3565	<b>Silicone:</b> BYK-3480 BYK-3481 BYK-3565
	<b>Silicone-free:</b> BYK-381 BYK-3560	<b>Silicone-free:</b> BYK-381 BYK-3560	<b>Silicone-free:</b> BYK-381 BYK-3560	<b>Silicone-free:</b> BYK-381 BYK-3560	<b>Silicone-free:</b> BYK-381 BYK-3560
Substrate wetting < 10 % co-solvent content	<b>Silicone:</b> BYK-346 BYK-348 BYK-349 BYK-3480 BYK-3481	<b>Silicone:</b> BYK-346 BYK-348 BYK-349 BYK-3480 BYK-3481	<b>Silicone:</b> BYK-346 BYK-348 BYK-349 BYK-3480 BYK-3481	<b>Silicone:</b> BYK-346 BYK-348 BYK-349 BYK-3480 BYK-3481	<b>Silicone:</b> BYK-348 BYK-349 BYK-3455 BYK-3480 BYK-3481
	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3760 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3760 BYK-3762	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3762 BYK-3764
Substrate wetting > 10 % co-solvent content	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3760 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3760 BYK-3762	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3480 BYK-3481 BYK-3762 BYK-3764
	<b>Silicone:</b> BYK-333 BYK-3760 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3760 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3760 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3760 BYK-3762 BYK-3764	<b>Silicone:</b> BYK-333 BYK-3760 BYK-3762 BYK-3764
Defoaming	<b>Silicone:</b> BYK-022 BYK-024 BYK-028 BYK-092 BYK-093 BYK-1786	<b>Silicone:</b> BYK-022 BYK-092 BYK-1786	<b>Silicone:</b> BYK-024 BYK-028 BYK-092 BYK-093 BYK-1786	<b>Silicone:</b> BYK-022 BYK-024 BYK-028 BYK-092	<b>Silicone:</b> BYK-024 BYK-028 BYK-093 BYK-1786
	<b>Silicone-free:</b> BYK-011 BYK-1640 BYK-1711	<b>Silicone-free:</b> BYK-011 BYK-015	<b>Silicone-free:</b> BYK-011 BYK-015 BYK-1640	<b>Silicone-free:</b> BYK-011 BYK-1640 BYK-1711	<b>Silicone-free:</b> BYK-011
				<b>Mineral oil:</b> BYK-037	

Unless otherwise stated, all silicone-containing additives have a cyclic siloxane content (D4, D5, D6) of less than 0.1 % each.

\*1 Biocide-free version: Future-oriented variant of the original product. Originals are still available.

\*2 Only for inorganic pigments

\*3 For baking systems



## Aqueous industrial coatings (3/3)

Application	Emulsion systems alkyd/acrylic/polyurethane	Water reducible systems acrylic/alkyd/polyester	2-pack polyurethanes	2-pack epoxies	UV-curing systems
Scratch resistance	AQUACER 539 CERAFLOUR 929 N	CERAFLOUR 929 N	AQUACER 507 AQUACER 531 AQUACER 539 AQUAMAT 272 N CERAFLOUR 929 N		AQUACER 507 AQUACER 531 AQUAMAT 272 N
Anti-popping		BYKETOL-AQ BYKETOL-WA BYKETOL-WB	BYKETOL-AQ BYKETOL-WA BYKETOL-WB		
Matting	AQUAMAT 208 AQUAMAT 272 N CERAFLOUR 927 N CERAFLOUR 929 N CERAFLOUR 1010	AQUAMAT 208 AQUAMAT 272 N CERAFLOUR 927 N CERAFLOUR 929 N CERAFLOUR 1010	CERAFLOUR 927 N CERAFLOUR 929 N  In combination with matting agent: CERAFLOUR 950		AQUAMAT 272 N CERAFLOUR 929 N CERAFLOUR 1000 CERAFLOUR 1010
Texture	CERAFLOUR 913 CERAFLOUR 914 CERAFLOUR 915 CERAFLOUR 916 CERAFLOUR 917	CERAFLOUR 913 CERAFLOUR 914 CERAFLOUR 915 CERAFLOUR 916 CERAFLOUR 917	CERAFLOUR 913 CERAFLOUR 914 CERAFLOUR 915 CERAFLOUR 916 CERAFLOUR 917	CERAFLOUR 913 CERAFLOUR 914 CERAFLOUR 915 CERAFLOUR 916 CERAFLOUR 917	CERAFLOUR 913 CERAFLOUR 914 CERAFLOUR 915 CERAFLOUR 916 CERAFLOUR 917
Soft-feel effect	AQUAMAT 272 N CERAFLOUR 913 CERAFLOUR 929 N CERAFLOUR 1010	AQUAMAT 272 N CERAFLOUR 913 CERAFLOUR 929 N CERAFLOUR 1010	AQUAMAT 272 N CERAFLOUR 913 CERAFLOUR 929 N		AQUAMAT 272 N CERAFLOUR 913 CERAFLOUR 929 N CERAFLOUR 1000 CERAFLOUR 1010
Easy cleaning properties	BYK-SILCLEAN 3720* <sup>3</sup>	BYK-SILCLEAN 3720* <sup>3</sup>	BYK-SILCLEAN 3720		
Adhesion promoter for metal	BYK-4509* <sup>3</sup>	BYK-4509* <sup>3</sup>	BYK-4509 BYK-4512	BYK-4513	

Unless otherwise stated, all silicone-containing additives have a cyclic siloxane content (D4, D5, D6) of less than 0.1 % each.

\*<sup>1</sup> Biocide-free version: Future-oriented variant of the original product. Originals are still available.

\*<sup>2</sup> Only for inorganic pigments

\*<sup>3</sup> For baking systems



## Pigment concentrates

### Pigment stabilization, anti-flood, anti-float

#### Grind with resin:

DISPERBYK-2012  
DISPERBYK-2055

#### Resin-free grind:

DISPERBYK-190 BF\*<sup>4</sup>  
DISPERBYK-191  
DISPERBYK-2010  
DISPERBYK-2012

### Rheology modifier, anti-settling

OPTIGEL-WM  
OPTIGEL-WX  
RHEOBYK-D 420

### Defoaming

**Silicone:**  
BYK-021  
BYK-024  
BYK-1786

**Silicone-free:**  
BYK-012  
BYK-014  
BYK-1640

Unless otherwise stated, all silicone-containing additives have a cyclic siloxane content (D4, D5, D6) of less than 0.1 % each.

\*<sup>4</sup> Biocide-free version: Future-oriented variant of the original product. Originals are still available.

## Electrodeposition coatings

### Pigment stabilization, gloss, anti-flood, anti-float

### Leveling

### Anti-cratering, oil robustness

### Substrate wetting

### Defoaming

### Increase of surface energy

### Adhesion

BYK-DYNWET 800  
DISPERBYK-109  
DISPERBYK-111  
DISPERBYK-192  
DISPERBYK-2117

BYK-DYNWET 800

BYK-326  
BYK-327  
BYK-3540

BYK-347  
BYK-349  
BYK-3455

BYK-011  
BYK-012  
BYK-014  
BYK-1740

**Silicone:**  
BYK-3565  
BYK-3566

**Silicone-free:**  
BYK-3560

BYK-3560  
BYK-4513\*<sup>5</sup>

Unless otherwise stated, all silicone-containing additives have a cyclic siloxane content (D4, D5, D6) of less than 0.1 % each.

\*<sup>5</sup> Please pre-neutralize before use.

For more products for electrodeposition coatings, please contact [ecoat.byk@altana.com](mailto:ecoat.byk@altana.com)

**BYK-Chemie GmbH**  
 Abelstraße 45  
 46483 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)

ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFLOUR®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions.

