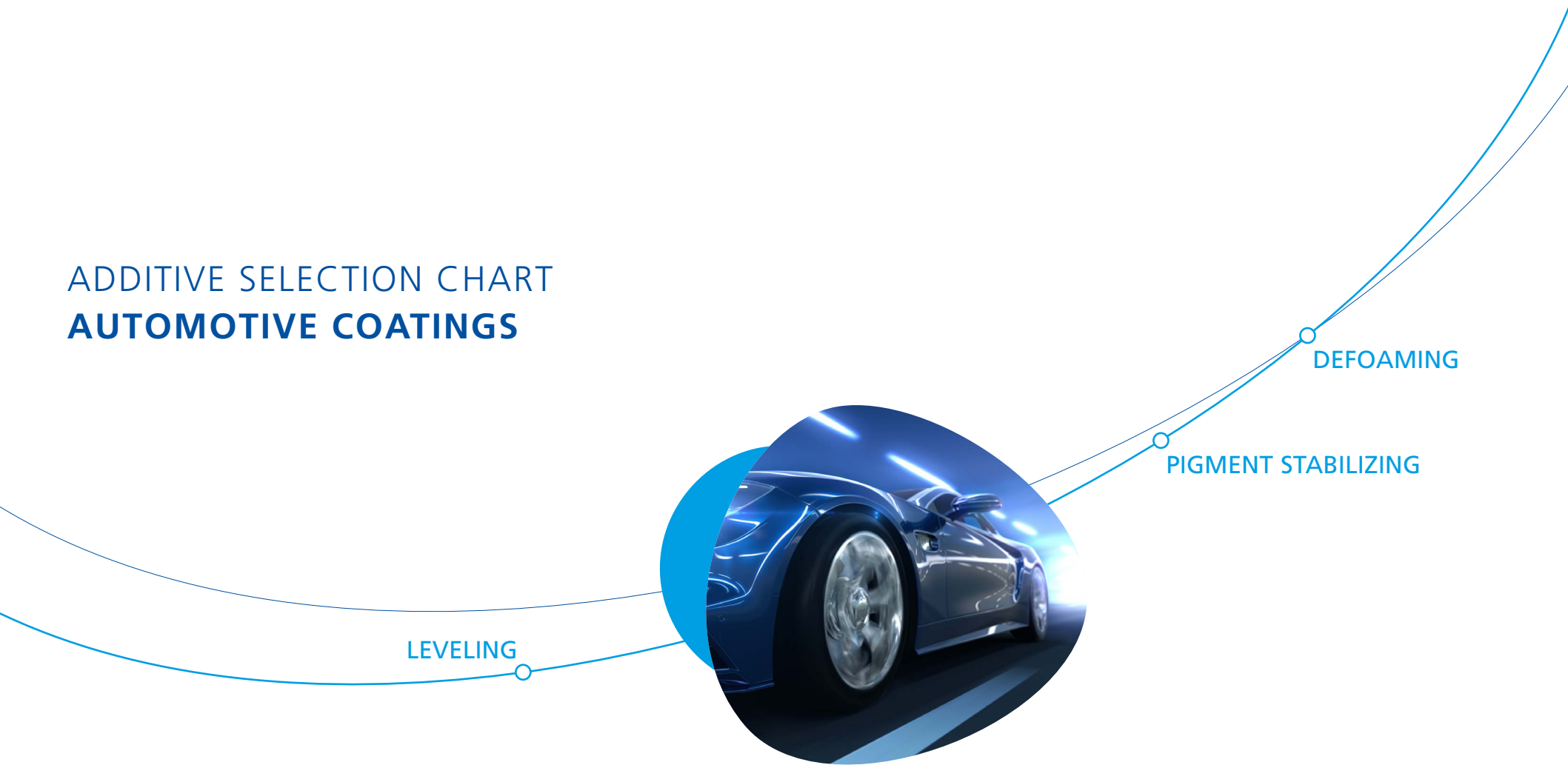


# ADDITIVE SELECTION CHART **AUTOMOTIVE COATINGS**



LEVELING

PIGMENT STABILIZING

DEFOAMING



## Automotive OEM coatings (1/4)

### Electrodeposition coatings

Application	Pigment stabilization, gloss, anti-flood, anti-float	Leveling	Anti-cratering, oil robustness	Substrate wetting	Defoaming	Increase of surface energy	Adhesion
Aqueous	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-free: BYK-3560 ●  Silicone: BYK-3565 ● BYK-3566 ●	BYK-3560 ● BYK-4513*1 ●

● First recommendation ○ Second recommendation \*1 Please pre-neutralize before use.

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

### Primer surfacers

Application	Pigment stabilization, gloss, anti-flood, anti-float		Anti-settling	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Defoaming	Boiling marks, pinholes	Increase of electrical conductivity	Increase of surface energy
	Colored and dark primer surfacers	Light and white primer surfacers									
Solvent-borne	DISPERBYK-2055 ● DISPERBYK-2155 ●  With high levels of BaSO <sub>4</sub> : DISPERBYK-180 ●	DISPERBYK-111 ● DISPERBYK-180 ●	RHEOBYK-7410 ET ● RHEOBYK-D 410 ●	RHEOBYK-415 ● RHEOBYK-430 ● RHEOBYK-405 ○	BYK-355 ● BYK-358 N ● BYK-399 ●	BYK-322 ● BYK-3550 ●	BYK-3550 ●	BYK-054 ●	BYK-392 ● BYKETOL-OK ●	BYK-E5 80 ● (effective in the liquid coating)	BYK-3560 ● BYK-3565 ● BYK-3566 ●
Aqueous	Grind with resin: DISPERBYK-180 ● DISPERBYK-2012 ●  Resin-free grind: DISPERBYK-2010 ● DISPERBYK-2014 ●	Grind with resin: DISPERBYK-180 ● DISPERBYK-2012 ●  Resin-free grind: DISPERBYK-199 ● DISPERBYK-2010 ● DISPERBYK-2019 ●	RHEOBYK-7420 ES ● RHEOBYK-7420 ET ●	RHEOBYK-440 ● RHEOBYK-H 7625 VF ●	BYK-381 ● BYK-3560 ● BYK-3565 ●	BYK-349 ● BYK-3565 ● BYK-3566 ●	BYK-346 ● BYK-347 ● BYK-349 ●	BYK-011 ● BYK-015 ● BYK-024 ○	BYKETOL-AQ ● BYKETOL-WA ● BYKETOL-WB ● BYK-015 ○		BYK-3560 ● BYK-3565 ● BYK-3566 ●

● First recommendation ○ Second recommendation



## Automotive OEM coatings (2/4)

### One-coat topcoats (solid colors)

Application	Pigment stabilization, gloss, anti-flood, anti-float		Anti-settling	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Surface slip	Defoaming	Boiling marks, pinholes	Increase of electrical conductivity
	Titanium dioxide, inorganic pigments	Organic pigments, carbon black									
Solvent-borne	Acidic surface:	DISPERBYK-161* <sup>2</sup> ●	RHEOBYK-7410 ET ●	RHEOBYK-415 ●	Silicone-free:	BYK-306 ●	BYK-306 ●	BYK-306 ●	BYK-141 ●	BYK-352 ●	BYK-ES 80 ●
	DISPERBYK-161* <sup>2</sup> ●	DISPERBYK-2013 ●	RHEOBYK-D 410 ●	RHEOBYK-430 ●	BYK-355 ●	BYK-310 ●	BYK-331 ●	BYK-378 ●		BYK-392 ●	(effective in the liquid coating)
	Acidic/basic surface:	DISPERBYK-2014 ●		RHEOBYK-405 ○	BYK-358 N ●	BYK-378 ●	BYK-3550 ●	BYK-3568 ●		BYKETOL-OK ●	
	DISPERBYK-180 ●	DISPERBYK-2200* <sup>2</sup> ●			BYK-399 ●	BYK-3550 ●	BYK-3568 ●	BYK-3760 ○			
	Basic surface:	DPP pigments:			Silicone:	BYK-3568 ●					
	DISPERBYK-110 ●	DISPERBYK-166 ●			BYK-315 N ●						
	DISPERBYK-111 ●	Combination with synergists:			BYK-320 ●						
	DISPERBYK-180 ●	BYK-SYNERGIST 2100 ●			BYK-331 ●						
Aqueous	Grind with resin:	Grind with resin:	RHEOBYK-7420 ES ●	RHEOBYK-440 ●	BYK-381 ●	BYK-326 ●	BYK-347 ●	BYK-331 ●	BYK-011 ●	BYKETOL-AQ ●	
	DISPERBYK-180 ●	DISPERBYK-184 ●	RHEOBYK-7420 ET ●	RHEOBYK-H 7625 VF ●	BYK-3565 ●	BYK-331 ●	BYK-349 ●	BYK-333 ●	BYK-015 ●	BYKETOL-WA ●	
	DISPERBYK-2012 ○	DISPERBYK-2012 ●				BYK-333 ●	BYK-3451 ●	BYK-378 ●	BYK-1710 ○	BYKETOL-WB ●	
		DISPERBYK-2014 ●				BYK-3565 ●	BYK-3455 ●			BYK-015 ○	
						BYK-3566 ●					
	Resin-free grind:	Resin-free grind:									
DISPERBYK-190 ●	DISPERBYK-190 ●										
DISPERBYK-2012 ●	DISPERBYK-2012 ●										
DISPERBYK-2018 ●	DISPERBYK-2014 ●										
DISPERBYK-2019 ●											

● First recommendation    ○ Second recommendation

\*<sup>2</sup> In cases where the cationic groups of these additives interact with acidic components of the formulation (such as catalysts) DISPERBYK-170 is recommended instead.



## Automotive OEM coatings (3/4)

### Basecoats

Application	Pigment stabilization, gloss, anti-flood, anti-float			Anti-settling	Leveling	Anti-cratering	Substrate wetting	Defoaming	Boiling marks, pinholes	Orientation of effect pigments	Increase of surface energy
	Titanium dioxide, inorganic pigments	Organic pigments, carbon black	Effect pigments								
Solvent-borne	DISPERBYK-110 ● DISPERBYK-180 ● DISPERBYK-2026 ●	With CAB: DISPERBYK-2000 ● DISPERBYK-2001 ●  Without CAB: DISPERBYK-161 ● DISPERBYK-2200 ● DISPERBYK-2000 ○  Combination with synergists: BYK-SYNERGIST 2100 ●	DISPERBYK-110 ● DISPERBYK-162 ●	RHEOBYK-7410 ET ● RHEOBYK-D 410 ●  Wax: CERATIX 8561 ● CERATIX 8563 ● CERATIX 8566 ●	BYK-315 N ● BYK-320 ●	BYK-3550 ●	BYK-320 ● BYK-3550 ● BYK-331 ○	BYK-392 ●	BYKETOL-OK ●	CERAFAK 103 ● CERAFAK 106 ● CERAFAK 110 ● CERATIX 8561 ● CERATIX 8563 ● CERATIX 8566 ●	BYK-3565 ● BYK-3566 ●
	Aqueous	Grind with resin: DISPERBYK-180 ● DISPERBYK-2012 ●  Resin-free grind: DISPERBYK-190 ● DISPERBYK-2012 ● DISPERBYK-2019 ●	Grind with resin: DISPERBYK-184 ● DISPERBYK-2012 ● DISPERBYK-2014 ●  Resin-free grind: DISPERBYK-190 ● DISPERBYK-2012 ● DISPERBYK-2014 ●	DISPERBYK-180 ● DISPERBYK-192 ● DISPERBYK-2060 ●	RHEOBYK-7420 ES ● RHEOBYK-7420 ET ●	BYK-381 ● BYK-3560 ●	BYK-326 ● BYK-349 ● BYK-3565 ● BYK-3566 ●	BYK-347 ● BYK-349 ●	BYK-011 ● BYK-015 ● BYK-028 ○ BYK-1710 ○	BYK-015 ● BYKETOL-AQ ● BYKETOL-WA ● BYKETOL-WB ●	AQUATIX 8421 ● LAPONITE-RD ● RHEOBYK-440 ●

● First recommendation    ○ Second recommendation



## Automotive OEM coatings (4/4)

### Clearcoats

Application	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Scratch resistance (dry)	Surface slip	Defoaming	Boiling marks, pinholes	Increase of electrical conductivity	Increase of surface energy
Solvent-borne	RHEOBYK-415 ●	BYK-315 N ●	BYK-306 ●	BYK-306 ●	NANOBYK-3650 ●	BYK-306 ●	BYK-141 ●	1-pack systems: BYK-390 ●	BYK-ES 80 ● (effective in the liquid coating)	BYK-3568 ●
	RHEOBYK-430 ●	BYK-326 ●	BYK-310 ●	BYK-331 ●	NANOBYK-3652 ●	BYK-378 ●				
	RHEOBYK-405 ○	BYK-358 N ●	BYK-378 ●	BYK-378 ●		BYK-3568 ●				BYK-3566 ○
		BYK-399 ●	BYK-3550 ●	BYK-3550 ●		BYK-3760 ○		2-pack systems: BYKETOL-OK ●		
Aqueous	RHEOBYK-H 7625 VF ●	BYK-381 ●	BYK-326 ●	BYK-347 ●		BYK-331 ●	BYK-011 ●	BYKETOL-AQ ●		BYK-3565 ●
		BYK-3565 ●	BYK-331 ●	BYK-349 ●		BYK-333 ●	BYK-015 ●	BYKETOL-WA ●		BYK-3566 ●
			BYK-333 ●			BYK-378 ●	BYK-1710 ○	BYKETOL-WB ●		
			BYK-349 ●					BYK-015 ○		

● First recommendation    ○ Second recommendation



## Automotive refinish coatings (1/4)

### Putty

#### Viscosity reduction/increase of filler content

BYK-W 969 ●

Cobalt-accelerated systems:

BYK-W 966 ●

BYK-W 980 ●

#### Air release

BYK-A 555 ●

#### Rheology

CLAYTONE-VZ ●

RHEOBYK-100 ●

RHEOBYK-7503 ●

RHEOBYK-7590 ●

RHEOBYK-R 605 ●

CLAYTONE-MPZ ○

● First recommendation ○ Second recommendation

### Primer Surfacer

Application	Pigment stabilization, gloss, anti-flood, anti-float		Anti-settling	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Defoaming	Increase of surface energy
	Colored and dark primer surfacers	Light and white primer surfacers							
Solvent-borne	DISPERBYK-163 ●	DISPERBYK-111 ●	RHEOBYK-7410 ET ●	RHEOBYK-405 ●	BYK-320 ●	BYK-322 ●	BYK-322 ●	BYK-320 ●	BYK-3565 ●
	DISPERBYK-2055 ●	DISPERBYK-180 ●	RHEOBYK-D 410 ●	RHEOBYK-415 ●	BYK-355 ●	BYK-3550 ●	BYK-3550 ●	BYK-392 ●	BYK-3566 ●
	DISPERBYK-2155 ●			RHEOBYK-430 ●	BYK-358 N ●				
Aqueous	Grind with resin: DISPERBYK-180 ●	Grind with resin: DISPERBYK-180 ●	RHEOBYK-7420 ES ●	AQUATIX 8421 ●	BYK-381 ●	BYK-349 ●	BYK-347 ●	BYK-011 ●	BYK-3565 ●
	DISPERBYK-2012 ●	DISPERBYK-180 ●	RHEOBYK-7420 ET ●	RHEOBYK-440 ●	BYK-3560 ●	BYK-3565 ●	BYK-349 ●	BYK-015 ●	BYK-3566 ●
		DISPERBYK-199 ●	RHEOBYK-H 7625 VF ●	RHEOBYK-H 7625 VF ●	BYK-3565 ●	BYK-3566 ●		BYK-024 ○	
	Resin-free grind: DISPERBYK-190 ●	Resin-free grind: DISPERBYK-190 ●						BYK-028 ○	
	DISPERBYK-2010 ●	DISPERBYK-190 ●							
	DISPERBYK-2012 ●	DISPERBYK-2010 ●							
	DISPERBYK-2012 ●								
	DISPERBYK-2014 ●								

● First recommendation ○ Second recommendation



## Automotive refinish coatings (2/4)

### One-coat topcoats (solid colors)

Application	Pigment stabilization, gloss, anti-flood, anti-float		Anti-settling	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Scratch resistance (dry)	Surface slip	Defoaming	Boiling marks, pinholes
	Titanium dioxide, inorganic pigments	Organic pigments, carbon black									
Solvent-borne	2-pack polyurethanes: DISPERBYK-110 ● DISPERBYK-180 ●	2-pack polyurethanes: DISPERBYK-161 ● DISPERBYK-2013 ● DISPERBYK-2014 ● DISPERBYK-2200 ●	RHEOBYK-7410 ET ● RHEOBYK-D 410 ●	RHEOBYK-415 ● RHEOBYK-430 ●	BYK-320 ● BYK-352 ● BYK-358 N ● BYK-399 ●	BYK-306 ● BYK-310 ● BYK-378 ●	BYK-306 ● BYK-310 ● BYK-378 ●	NANOBYK-3650 ● NANOBYK-3652 ●	BYK-306 ● BYK-310 ● BYK-378 ● BYK-3760 ●	BYK-141 ● BYK-392 ● BYK-397 ○  Airless: BYK-1880 ○	BYK-392 ● BYKETOL-OK ●
	Thermoplastic acrylics: DISPERBYK-145 ● DISPERBYK-2001 ● DISPERBYK-2155 ○	Thermoplastic acrylics: DISPERBYK-145 ● DISPERBYK-2001 ● DISPERBYK-2155 ●									
Aqueous	Grind with resin: DISPERBYK-180 ● DISPERBYK-2012 ●	Grind with resin: DISPERBYK-184 ● DISPERBYK-2012 ● DISPERBYK-2014 ●	RHEOBYK-7420 ES ● RHEOBYK-7420 ET ●	RHEOBYK-440 ● RHEOBYK-H 7625 VF ●	BYK-381 ● BYK-3560 ● BYK-3565 ●	BYK-326 ● BYK-331 ● BYK-333 ● BYK-3565 ● BYK-3566 ●	BYK-347 ● BYK-349 ● BYK-3451 ● BYK-3455 ●		BYK-331 ● BYK-333 ● BYK-378 ●	BYK-011 ● BYK-015 ● BYK-024 ○ BYK-028 ○	BYKETOL-AQ ● BYKETOL-WA ● BYK-015 ○
	Resin-free grind: DISPERBYK-190 ● DISPERBYK-2012 ● DISPERBYK-2018 ● DISPERBYK-2019 ●	Resin-free grind: DISPERBYK-190 ● DISPERBYK-2010 ● DISPERBYK-2012 ● DISPERBYK-2014 ●									

● First recommendation    ○ Second recommendation



## Automotive refinish coatings (3/4)

### Basecoats

Application	Pigment stabilization, gloss, anti-flood, anti-float			Anti-settling	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Defoaming	Boiling marks, pinholes	Effect pigment orientation	Increase of surface energy
	Titanium dioxide, inorganic pigments	Organic pigments, carbon black	Effect pigments									
Solvent-borne	DISPERBYK-110 ● DISPERBYK-180 ● DISPERBYK-206 ●	With CAB: DISPERBYK-2000 ● DISPERBYK-2001 ●  Without CAB: DISPERBYK-161 ● DISPERBYK-2000 ● DISPERBYK-2013 ● DISPERBYK-2200 ●	DISPERBYK-110 ● DISPERBYK-162 ●	RHEOBYK-7410 ET ● RHEOBYK-D 410 ●  Wax: CERATIX 8561 ● CERATIX 8563 ● CERATIX 8566 ●	RHEOBYK-415 ● RHEOBYK-430 ●	BYK-315 N ● BYK-320 ●	BYK-3550 ●	BYK-320 ● BYK-331 ●	BYK-322 ●	BYK-392 ●	CERAFK 103 ● CERAFK 106 ● CERAFK 110 ● CERATIX 8561 ● CERATIX 8563 ● CERATIX 8566 ●	BYK-3566 ● BYK-3568 ●
	Aqueous	Grind with resin: DISPERBYK-180 ● DISPERBYK-2012 ●  Resin-free grind: DISPERBYK-190 ● DISPERBYK-2012 ● DISPERBYK-2018 ● DISPERBYK-2019 ●	Grind with resin: DISPERBYK-184 ● DISPERBYK-2012 ●  Resin-free grind: DISPERBYK-190 ● DISPERBYK-2010 ● DISPERBYK-2012 ● DISPERBYK-2014 ●	DISPERBYK-180 ● DISPERBYK-192 ● DISPERBYK-2060 ●	RHEOBYK-7420 ES ● RHEOBYK-7420 ET ●	AQUATIX 8421 ● LAPONITE-RD ●	BYK-381 ● BYK-3565 ●	BYK-326 ● BYK-349 ● BYK-3565 ● BYK-3566 ●	BYK-346 ● BYK-347 ● BYK-349 ●	BYK-011 ● BYK-015 ● BYK-028 ○ BYK-1710 ○	BYKETOL-AQ ● BYKETOL-WA ● BYK-015 ○	AQUATIX 8421 ● LAPONITE-RD ● RHEOBYK-440 ●

● First recommendation   ○ Second recommendation





## Automotive refinish coatings (4/4)

### Clearcoats

Application	Anti-sagging	Leveling	Anti-cratering	Substrate wetting	Scratch resistance (dry)	Surface slip	Defoaming	Boiling marks, pinholes	Increase of surface energy
Solvent-borne	RHEOBYK-415 ● RHEOBYK-430 ●	BYK-315 N ● BYK-326 ● BYK-355 ● BYK-358 N ● BYK-399 ●	BYK-306 ● BYK-310 ● BYK-378 ● BYK-3550 ● BYK-3568 ●	BYK-306 ● BYK-331 ● BYK-378 ● BYK-3568 ●	NANOBYK-3650 ● NANOBYK-3652 ●	BYK-306 ● BYK-310 ● BYK-378 ● BYK-3760 ●	BYK-141 ● BYK-392 ● BYK-397 ○	BYK-352 ● BYKETOL-OK ●	BYK-3566 ● BYK-3568 ●
	Aqueous	RHEOBYK-H 7625 VF ● BYK-381 ● BYK-3565 ● BYK-326 ○	BYK-331 ● BYK-333 ● BYK-378 ○	BYK-347 ● BYK-349 ●	BYK-331 ● BYK-333 ● BYK-378 ○	BYK-011 ● BYK-015 ● BYK-028 ○ BYK-1710 ○	BYKETOL-AQ ● BYKETOL-WA ● BYK-015 ○	BYK-3565 ● BYK-3566 ●	

● First recommendation    ○ Second recommendation

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