

Oxylink™ – Technical Product Information

Additive for waterborne resin systems

Updated: 05/11

Product description	Aqueous formulation of inorganic particles including zinc oxide		
Intended Use	Additive for waterborne coatings and formulations		
Appearance	Off-white liquid		
Solvent	Water		
Product types	3101	3102	3103
Solid Content	44 wt.-%	40 wt.-%	36 wt.-%
Viscosity	Shear thinning; Shear rate D = 10 s ⁻¹ < 100 mPas	Shear thinning; Shear rate D = 10 s ⁻¹ < 200 mPas	Shear thinning; Shear rate D = 10 s ⁻¹ < 300 mPas
VOC-Content	< 1 %		
pH	7 – 9		
Density	1.4 – 1.6 g/ml		
Formulation suggestions	<p>Use 0.1 – 3 wt.-% Oxylink on total formulation. Agitate Oxylink before use.</p> <p>For best results confirm compatibility with your formulation. No flocculation or sedimentation should occur upon addition of Oxylink.</p> <p>Oxylink can be used as post-add additive. However, Buhler recommends adding Oxylink before addition of thickeners.</p> <p>For use in pigmented systems, introduce Oxylink into the final mix.</p> <p>The compatibility of Oxylink with your formulation, as well as the stability of the final formula, may be improved if necessary by further additives, e.g.:</p> <ul style="list-style-type: none"> - Borchl[®]Gen 650 (OMG Borchers GmbH, Germany) - Disperbyk[®] 190 (BYK-Chemie GmbH, Germany) - 2-Amino-2-methyl-1-propanol (CAS [124-68-5]) - Surfynol[®] 231 (Air Products and Chemicals, Inc., USA) 		
Storage and Transport	<p>4 – 40 °C (40 – 105 °F) Keep from freezing</p> <p>We recommend using Oxylink within 12 months from production.</p> <p>A small degree of sedimentation and a variation in optical density (fogging) in the product is normal and doesn't impede product quality.</p>		

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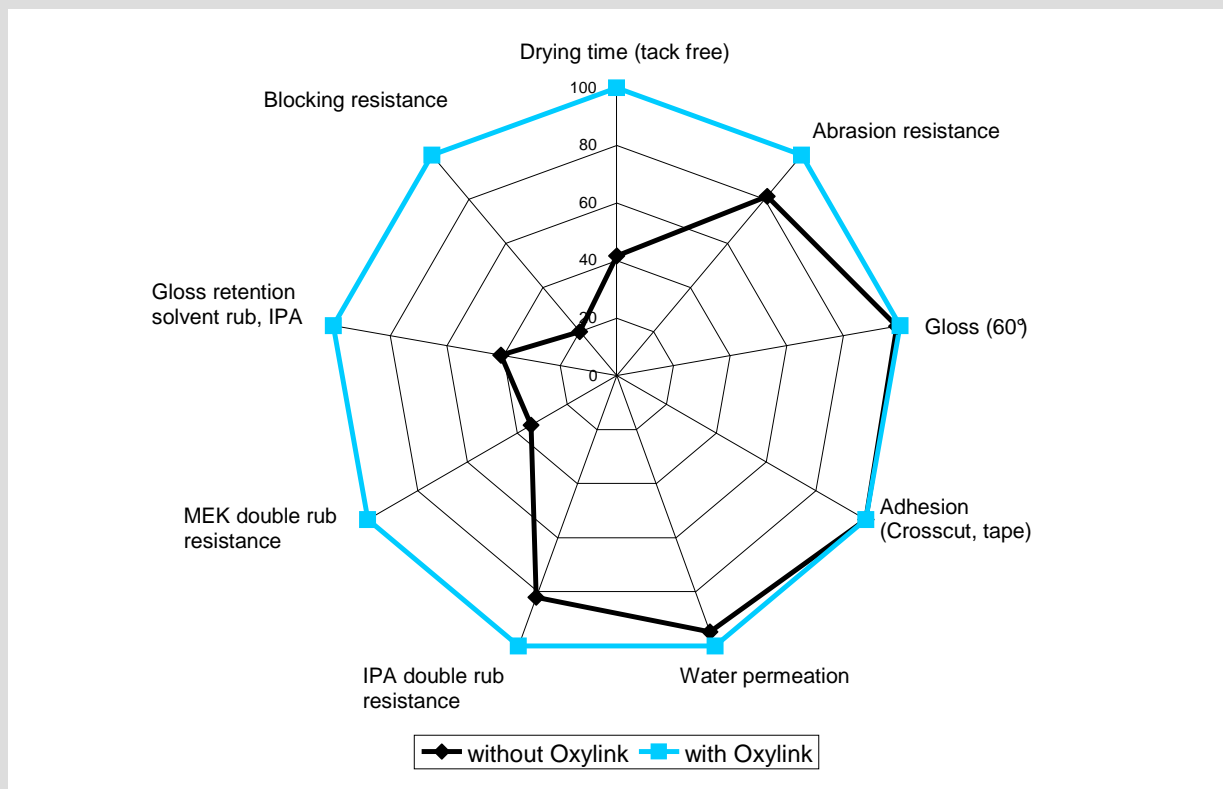
Oxylink™ – Starting Point Formulation

Acr01V1

Exterior translucent high build stain based on PRIMAL™ AC-337

Updated: 11/10

Ingredients	kgs	
PRIMAL™ AC-337 ER (45.5%)	64.9	Rohm and Haas Company, USA
TEGO® Foamex 825	0.2	Evonik Tego Chemie GmbH, Germany
Water	8.6	
Stir well for 5 minutes, then add slowly whilst stirring		
Texanol®	2.4	Eastman Chemicals Ltd., UK
Aqueous ammonia (28%)	0.3	
Water	20.9	
Mix well, then add whilst stirring:		
Oxylink™ 3103	0.8	Bühler AG, Switzerland
Mix well for 5 minutes, then add whilst stirring		
Acrysol™ RM-12W (19%)	0.7	Rohm and Haas Company, USA
Water	1.2	



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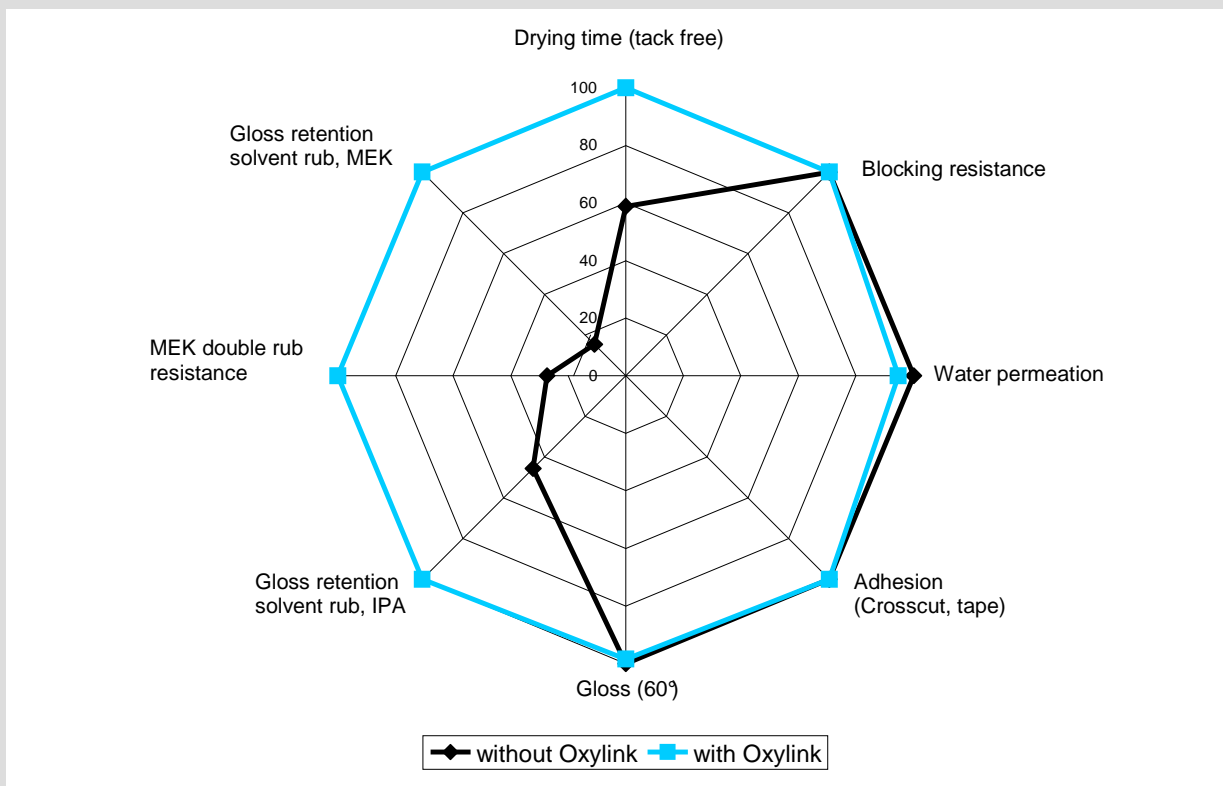
Oxylink™ – Starting Point Formulation

Acr02V1

Fast drying clearcoat based on Worléecryl® 7461

Updated: 11/10

Ingredients	kgs	
Worleecryl® 7461 (55%)	76.2	Worlée, Germany
Water	16.6	
Dow Corning® 65 Additiv	0.2	Dow Corning S. A., Belgium
Water:Ethylene glycol (1:1)	4.2	
Acrysol RM 5000	0.3	Rohm and Haas, USA
Mix well for 30 min, then add:		
Dow Corning® 57 Additiv	0.5	Dow Corning S. A., Belgium
Oxylink™ 3101	1.1	Bühler AG, Switzerland
Water	0.9	



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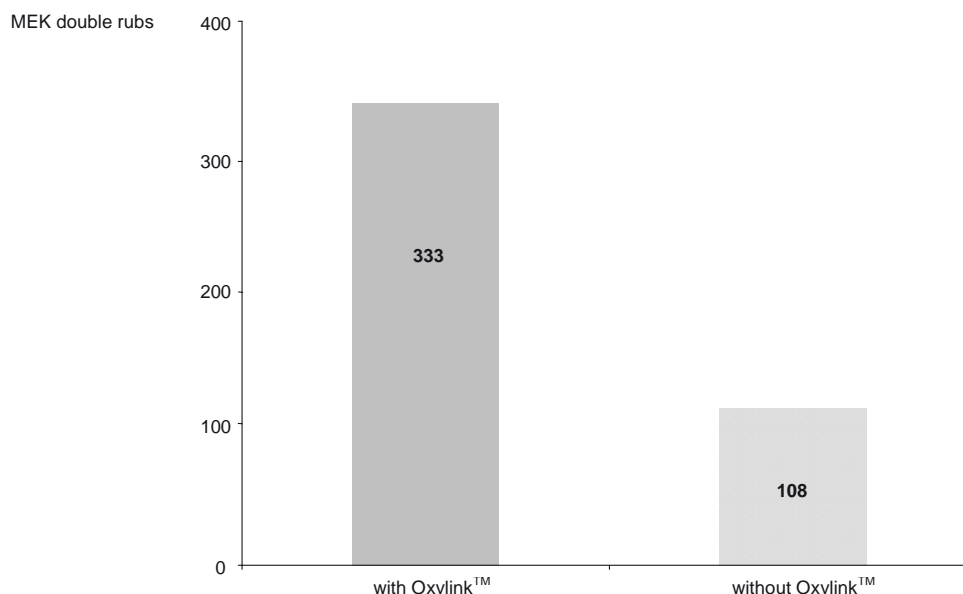
Oxylink™ – Starting Point Formulation

Acr03V1

Universal white metal primer based on Acronal® S 760

Updated:11/10

Ingredients	kgs	
Acronal® S 760	46,7	BASF AG, Germany
Water	11,1	
Butyl glycol	2,8	
Tego® Foamex 825	0,2	Evonik Tego Chemie GmbH, Germany
Corrosion inhibitor CHE COAT CI LNFA4	0,2	C. H. Erbslöh, Germany
Byk®-033	0,6	Byk-Chemie GmbH, Germany
Oxylink™ 3102	1,2	Bühler AG, Switzerland
Mix for 5 min. and add the following ingredients under high sheer		
Microcalc AT Extra-KN	5,8	Mondo Minerals BV, Netherlands
Ti-Pure® R-706	8,1	DuPont™, USA
SILLITIN Z 86	16,2	HOFFMANN MINERAL, Germany
Premix the following ingredients and add them to the mixture above		
Propylene glycol n-butyl ether	1,3	Dow Chemicals, USA
Dipropylene glycol monomethyl ether	3,1	Dow Chemicals, USA
Collacral® PU 85	2,7	BASF AG, Germany



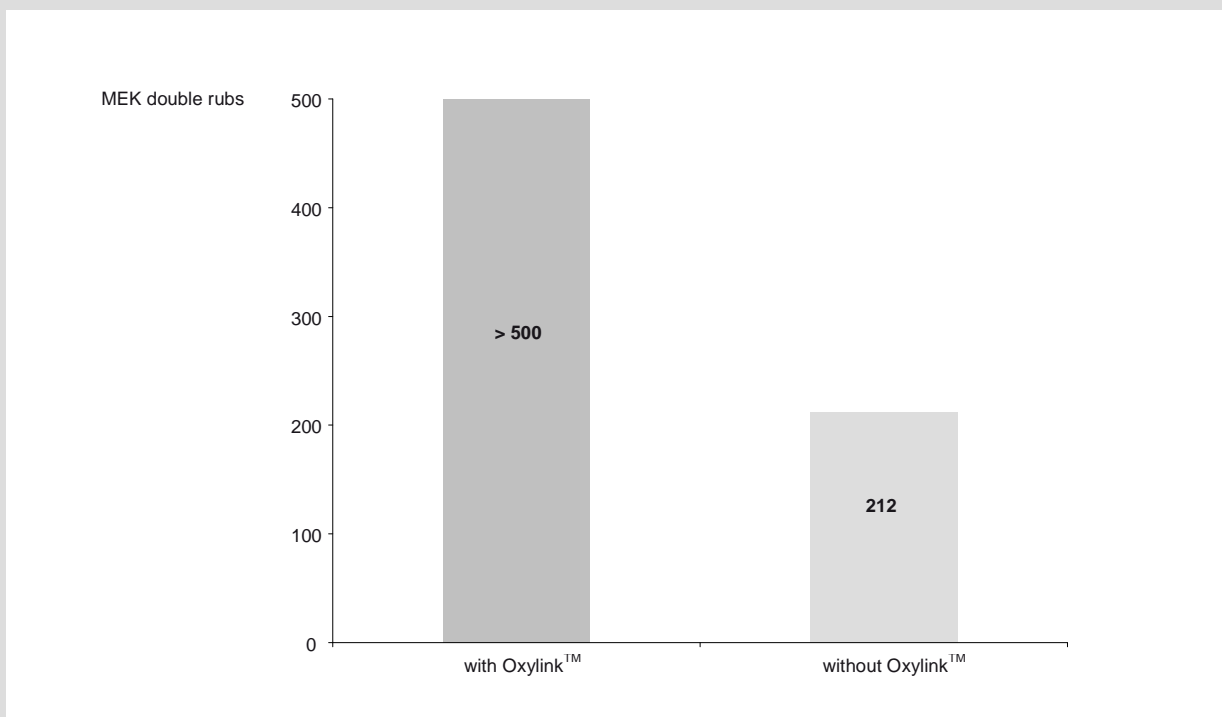
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Oxylink™ – Starting Point Formulation

Acr04V1

Universal white primer based on Acronal® S 760

Ingredients	kgs	
Acronal® S 760	61.1	BASF AG, Germany
Water	14.3	
Butyl glycol	3.7	
Tego® Foamex 825	0.3	Evonik Tego Chemie GmbH, Germany
Corrosion inhibitor CHE COAT CI LNFA4	0.3	C. H. Erbslöh, Germany
Byk®-033	0.7	Byk-Chemie GmbH, Germany
Oxylink™ 3102	0.7	Bühler AG, Switzerland
Mix for 5 min. and add the following ingredients under high sheer		
Microtalc AT Extra-KN	7,9	Mondo Minerals BV, Netherlands
Ti-Pure® R-706	11,0	DuPont™, USA



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Oxylink™ – Starting Point Formulation

Acr05V1

Universal white primer based on Acronal® S 760

Updated: 11/10

Premix 1		
Ingredients	kgs	
Acronal® S 760	44.0	BASF AG, Germany
Water	10.3	
Butyl glycol	2.7	
Tego® Foamex 825	0.2	Evonik Tego Chemie GmbH, Germany
Corrosion inhibitor CHE COAT CI LNFA4	0.2	C. H. Erbslöh, Germany
Byk®-033	0.5	Byk-Chemie GmbH, Germany
Add the ingredients in the given order, and add the following ingredients while stirring		
Microtalc AT Extra-KN	5.7	Mondo Minerals BV, Netherlands
Ti-Pure® R-706	7.9	DuPont™, USA
Sillitin Z 86	15.8	Hoffmann Mineral, Germany
Millicarb BG	5	Omya, Switzerland
Grind until Hegmann > 7		
Final mixture		
Propylene glycol n-butyl ether	1.3	
Dipropylene glycol monomethyl ether	3.0	
Collacral PU 85	2.5	BASF AG, Germany
Oxylink 3103	1.0	Bühler AG, Switzerland
Mix well and add to Premix 1 while stirring. Homogenize well with rotor stator device		

White protective top coat based on Acronal® S 760

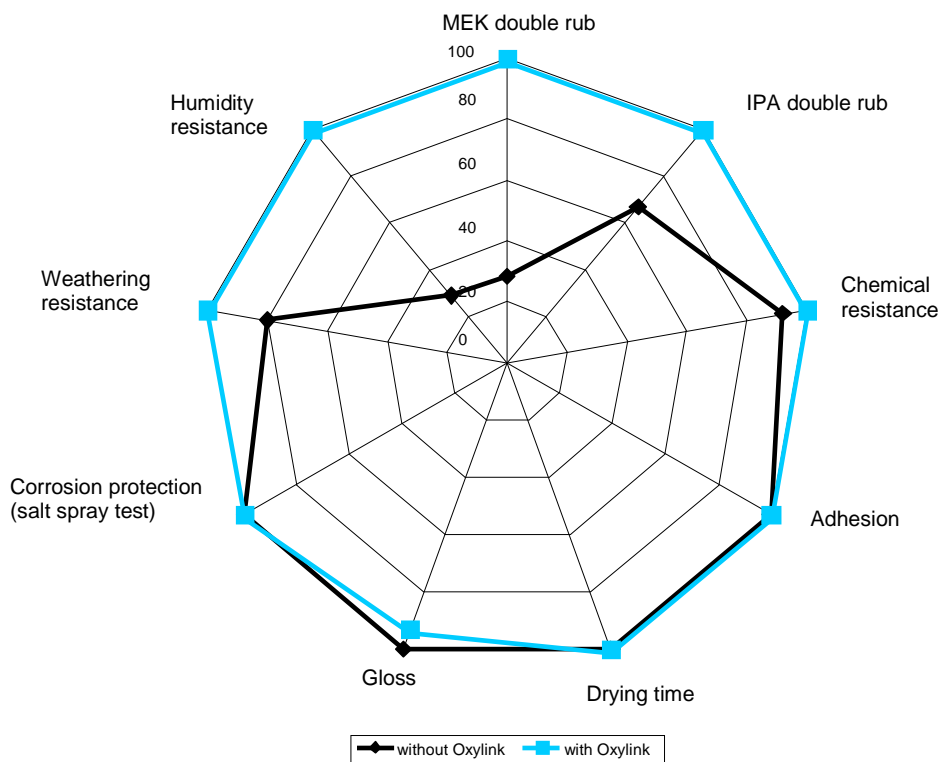
Premix 1		
Ingredients	kgs	
Water	6.7	
Butyl glycol	1.51	
Tego Fomex 825	0.25	Evonik Tego Chemie GmbH, Germany
Byk 033	0.6	Byk-Chemie GmbH, Germany
Add ingredients in the given order, mix well and then add		
Surfynol 104 E	0.06	Air Products, USA
Disperbyk 191	0.04	Byk-Chemie GmbH, Germany
Ti-Pure® R-706	8.1	DuPont™, USA
Mikrotalk IT extra	2.0	Mondo Minerals BV, Netherlands
Grind until Hegmann > 7, then add while stirring		
Water	16.7	
Acronal S760	62.1	BASF AG, Germany
Disperbyk 191	1.89	Byk-Chemie GmbH, Germany
Oxylink 3103	1.1	Bühler AG, Switzerland
Mix well with rotor stator device		

Oxylink™ – Starting Point Formulation

White protective top coat based on Acronal® S 760 (continued)

Final mixture	
Ingredients	kgs
Propylene glycol n-butyl ether	1.2
Dipropylene glycol monomethyl ether	2.8
Collacral PU 85	2.4

Mix well and add to Premix 1 while stirring, homogenize for 10 min.



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Oxylink™ – Starting Point Formulation

Acr06V1

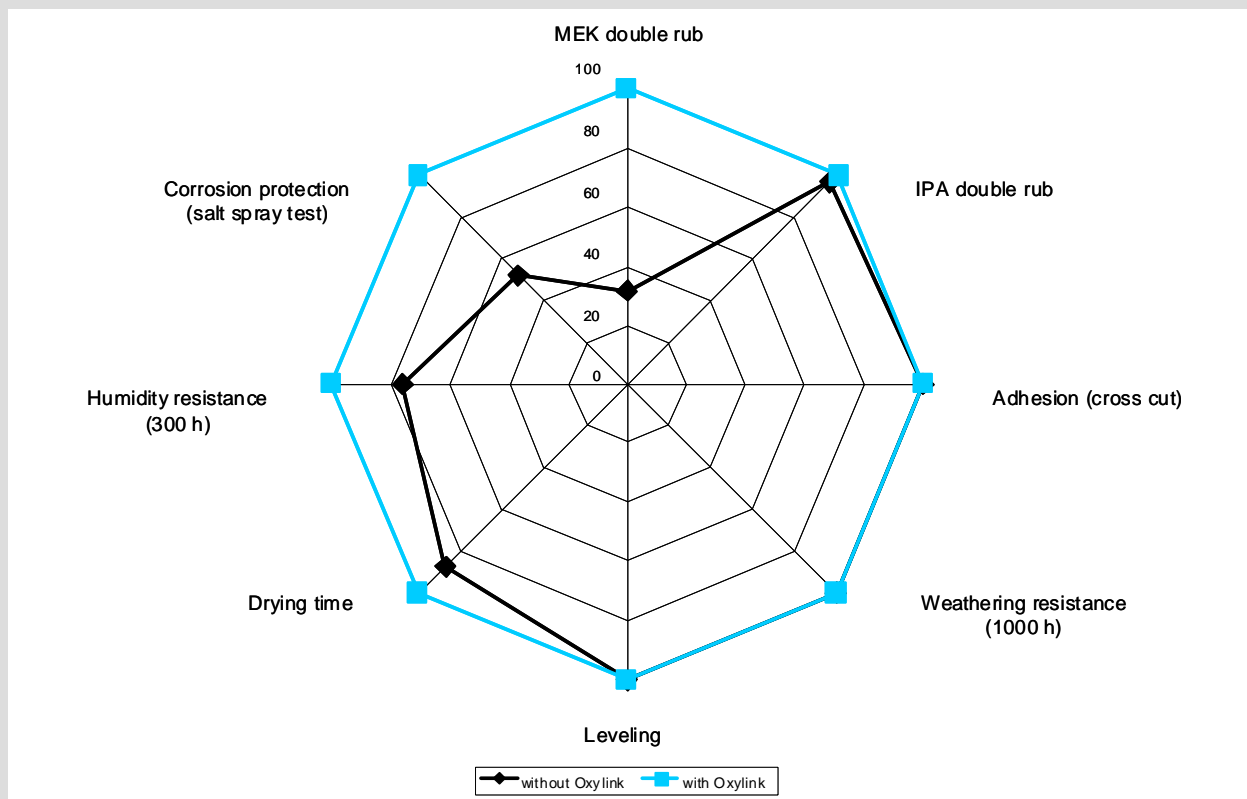
Acrylic direct to metal coating based on Posichem PC-Mull AC 16-2

Updated: 11/10

Pigment grind		
Ingredients	kgs	
Water	2.2	
Diethylene glycol monomethyl ether	5.1	
Orotan 165	0.8	Rohm & Haas, USA
Anti Terra 250	0.2	Byk-Chemie GmbH, Germany
Drew Plus T 4210	0.3	Ashland Inc., USA
Acrysol RM 8W	0.6	Rohm & Haas, USA
Bayferrox 130 M	5.9	Lanxess AG, Germany
Millicarb BG	17.9	Omya, Switzerland
Heucophos ZMP	1.0	Heubach GmbH, Germany
Grind until Hegman > 7		
Flash rust inhibitor		
Water	0.4	
Halox Flash X 350	0.4	Hammond Group, Inc., USA
Ammonia 25 %	0.1	
Mix separately and add to pigment grind		
Let down		
Butylglycol	4.5	
PC Mull AC 16-2	52.8	Posichem GmbH, Germany
Texanol	1.8	Eastman Chemical Company, USA
Halox Flash X 350	0.7	Hammond Group, Inc., USA
Drew Plus T 4210	0.3	Ashland Inc., USA
Water	4.0	
Oxylink 3102	1.0	Bühler AG, Switzerland
Mix well with rotor stator device		

Oxylink™ – Starting Point Formulation

Acrylic direct to metal coating based on Posichem PC-Mull AC 16-2



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Oxylink™ – Starting Point Formulation

ACR07V2

White protective direct-to-metal (DTM) metal coating based on Neocryl XK-86

Updated: 04/13

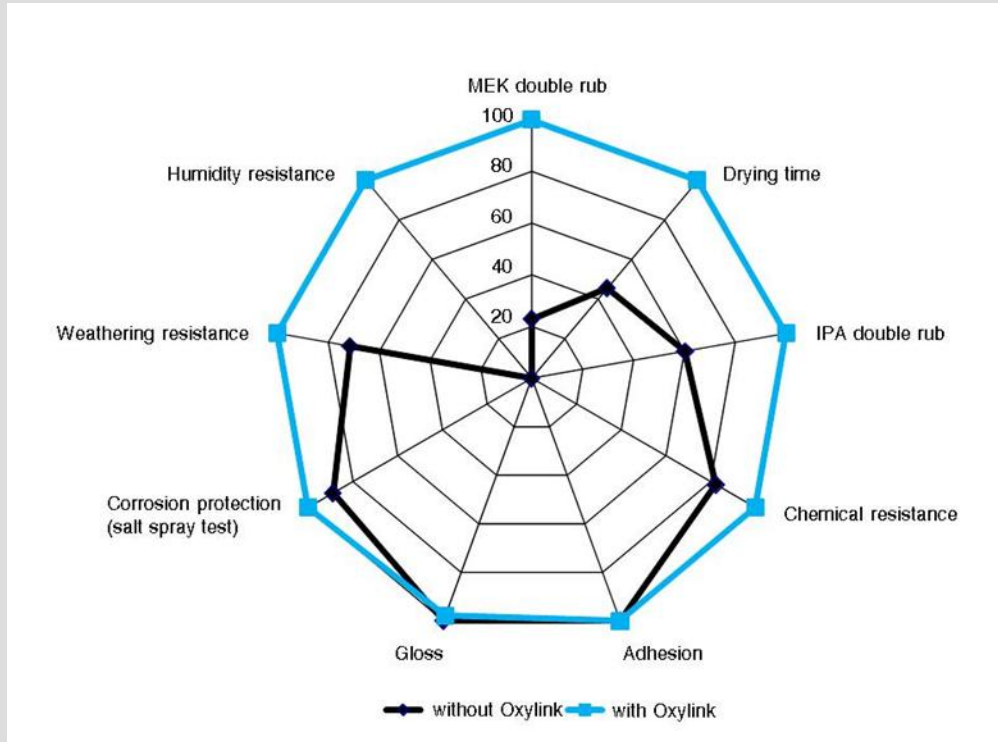
Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
Pigment grind:			
Butyl glycol	2.0	2.0	
Water	2.9	2.9	
2-Amino-2-methyl-1-propanol	0.2	0.2	
Dehydran 1293	0.4	0.4	Cognis
Surfynol 104 (50 % in Etylene glycol)	0.2	0.2	Air Products and Chemicals
Disperbyk 191	0.3	0.3	Byk-Chemie
Neocryl BT-24	2.5	2.5	DSM
Ti Pure R706	19.5	19.5	DuPont
Premix 2 (mix separately)			
Mix ingredients in the given order and grind with three roll mill or rotor stator high speed device.			
Neocryl XK-86	58.1	58.1	DSM
Adjust pH to 8.5 with aq. ammonia (15 %)			
Butyl glycol	3.6	3.6	
Premix 3 (mix separately)			
Texanol	0.7	0.7	Eastman
Lusolvan FBH	0.9	0.9	BASF
Byk 346	0.8	0.8	Byk-Chemie
Dehydran 1293	1.4	1.4	Cognis
CHE Coat LNF A4	0.5	0.5	C. H. Erbslöh
Water	0.8	0.8	
Mix well, adjust pH to 8.5 with aq. ammonia (conc.) and add while stirring to Premix 2. Homogenize for 5 min.			
Add the resulting mixture to the Pigment Grind D 1855-4 while stirring, homogenize with rotor stator device, then add while stirring:			
Oxylink 3101	0.0	0.8	Bühler
Water	3.1	3.1	
Nacorr 1652	0.6	0.6	King Industries
Butyl glycol	0.5	0.5	
Homogenize well for additional 5 min.			
Total	99.0	100.0	

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Oxylink™ – Starting Point Formulation

ACR07V2

White protective DTM metal coating based on Neocryl® XK-86



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Oxylink™ – Starting Point Formulation

Acr08V2

Silver acrylic plastic coating based on DSM Neocryl A 662

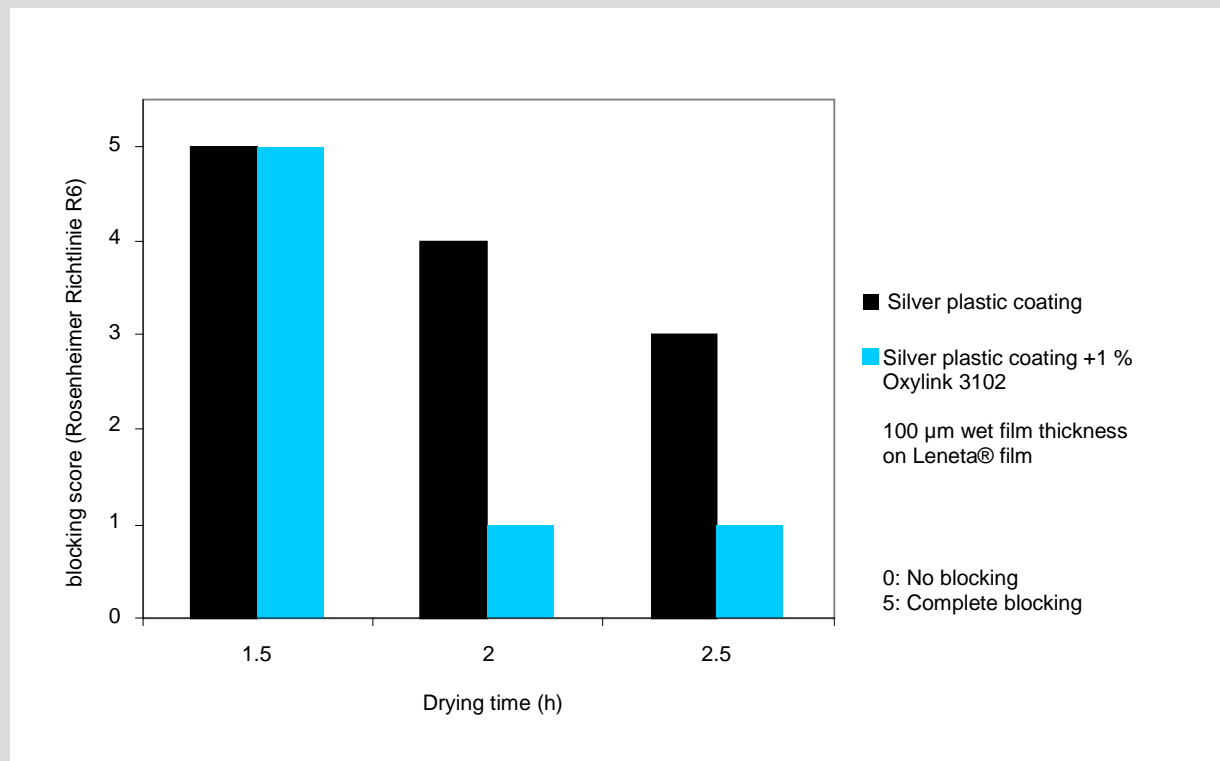
Updated: 03/12

Pigment grind		
Ingredients	kgs	
Water	9.3	
Disperbyk 192	0.2	Byk-Chemie GmbH, Germany
Stapa Hydrolan IL 161	6.2	Eckart GmbH, Germany
Halox SZP	0.2	Hammond Group Inc., USA
Halox 515	0.2	Hammond Group Inc., USA
Diethylene glycol monobutyl ether	0.1	
Grind until Hegman > 7 and let equilibrate over night.		
Let down		
Water	6.8	
Ethylene glycol monobutyl ether	12.6	
Diethylene glycol monobutyl ether	3.3	
Dipropylene glycol monomethyl ether	3.3	
Adjust with 2-Amino-2-methylpropanol to pH 9.0		
Add the pH 9.0 solution to the following:		
Neocryl A-662	54.3	DSM, Netherlands
Add the further ingredients while stirring:		
Drewplus SG-4552	0.5	Ashland Inc., USA
Dapro W-77	0.1	Elementis, UK
Pigment grind	16.3	
Acrysol ASE 60 + water (1:1)	1.7	Rohm & Haas, USA
Oxylink 3102	1.0	Bühler AG, Switzerland
Deurex WX 9812 G	0.025	Deurex AG, Germany

Oxylink™ – Starting Point Formulation

Silver acrylic plastic coating based on DSM Neocryl A 662

Faster finishing: Faster stackability through reduced blocking



Gloss, viscosity, adhesion, and mechanical strength were not altered by Oxylink 3102.

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Oxylink™ – Starting Point Formulation

Acr09V1

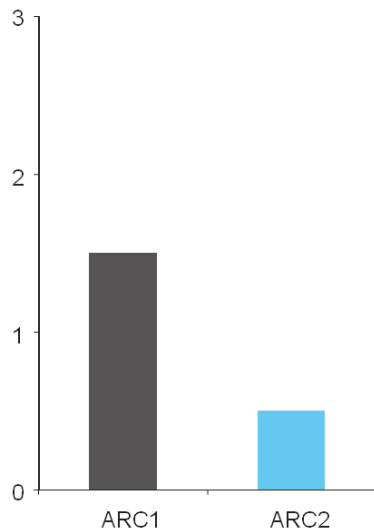
White exterior and interior wall paint based on an acrylic ester-styrene copolymer resin

Updated: 03/11

Ingredients	ARC1 kg	ARC2 kg	Supplier
Water	19.06	19.06	
Calgon N neu	0.06	0.06	BK Giulini, Germany
Borchi Gen NA 40	0.39	0.39	OMG Borchers, Germany
Borchi Gen DFN	0.29	0.29	OMG Borchers, Germany
Borchers AFT	0.22	0.22	OMG Borchers, Germany
Natrosol 330 Plus	0.22	0.22	Ashland, USA
AMP90	0.11	0.11	Angus, US
Kronos 2300	22.04	22.04	Kronos, Germany
Mikro Talk IT extra	2.76	2.76	Mondo Minerals BV, Netherlands
Durcal 5	16.53	16.53	Omya, Switzerland
grind till desired fineness, then add:			
Dowanol DPnB	0.39	0.39	Dow, USA
Borchi Gel 0434	0.43	0.43	OMG Borchers, Germany
Acronal 290D	36.87	36.87	BASF, Germany
Byk 032	0.34	0.34	Byk Chemie, Germany
Oxylink 3102		0.30	Bühler AG, Switzerland

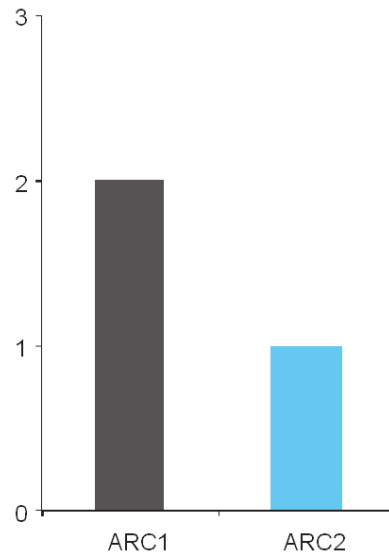
Higher early water resistance

Early water resistance



Better efflorescence resistance

efflorescence



0 = best; 5 = worst

Other coating performance properties (gloss, viscosity, and adhesion) were not altered by addition of Oxylink 3102.

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Oxylink™ – Starting Point Formulation

Acr10V1

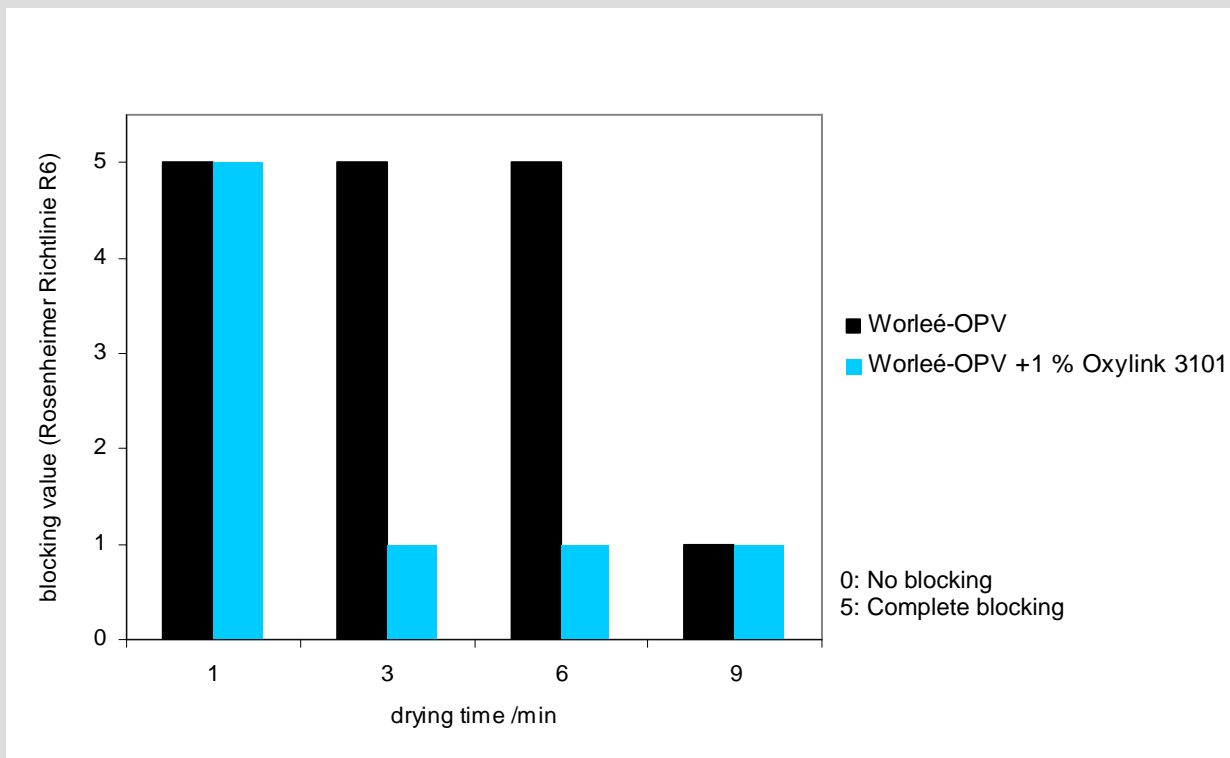
Matt acrylic overprint varnish (OPV) for paper based on Worleecryl 8025 and 8290

Updated: 11/10

Ingredients	kgs	
Worleecryl 8025	38.6	Worleé Chemie, Germany
Worleecryl 8290	46.7	Worleé Chemie, Germany
Worleewax 8510	4.2	Worleé Chemie, Germany
Worleeadd 646	0.2	Worleé Chemie, Germany
Worlee add 327	0.8	Worleé Chemie, Germany
WorleeAdd 330	0.7	Worleé Chemie, Germany
Water	7.8	
2-Amino-2-methyl-1-propanol CAS 124-68-5	0.04	
Oxylink 3101	1.0	Bühler AG, Switzerland

Mix well with rotor stator device

Faster finishing: Faster printing speed through reduced blocking



Gloss, viscosity, adhesion, and mechanical strength were not altered by Oxylink 3101.

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Oxylink™ – Starting Point Formulation

ACR11V1

Blue pigmented protective direct-to-metal (DTM) coating based on Neocryl XK-86 .

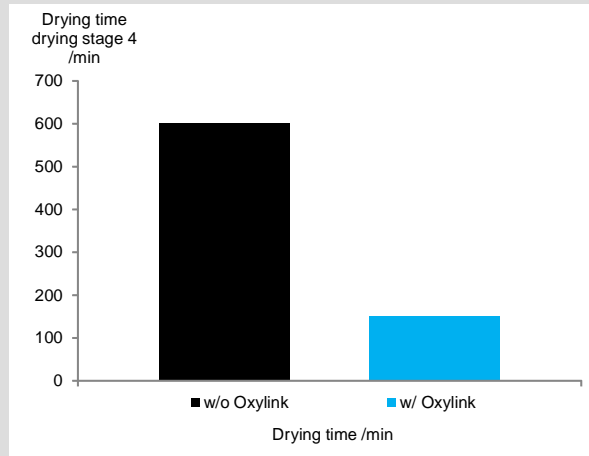
Updated: 04/13

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
<i>Pigment grind</i>			
Ethylene glycol monobutyl ether	1.7	1.7	
Water	2.3	2.3	
2-Amino-2-methyl-1-propanol	0.2	0.2	
Dehydran 1293	0.4	0.4	BASF
Surfynol 104 E	0.2	0.2	Air Products and Chemicals
Disperbyk 191	0.3	0.3	Byk-Chemie
Neocryl BT-24	2.2	2.2	DSM
Ti Pure R706	16.7	16.7	DuPont
<i>Let down</i>			
Neocryl XK 86	50.7	50.7	DSM
Adjust to pH 8.5 with ammonia			
Butylglycol	3.2	3.2	
Texanol	0.6	0.6	Eastman Chemical
Lusolvan FBH	0.8	0.8	BASF
Byk 346	0.7	0.7	Byk-Chemie
Dehydran 1293	1.2	1.2	BASF
CHE Coat A4	0.5	0.5	C. H. Erbslöh GmbH
Water, then adjust to pH 8.5 with ammonia	0.7	0.7	
Nacorr 1652	0.5	0.5	King Industries
Ethylene glycol monobutyl ether	0.4	0.4	
2-Amino-2-methyl-1-propanol	0.1	0.1	
Water	6.5	6.5	
Vocaflex LF Blue 15:3	9.1	9.1	Arichemie
Oxylink 3101	0.0	1.0	Bühler
Total	99.0	100.0	

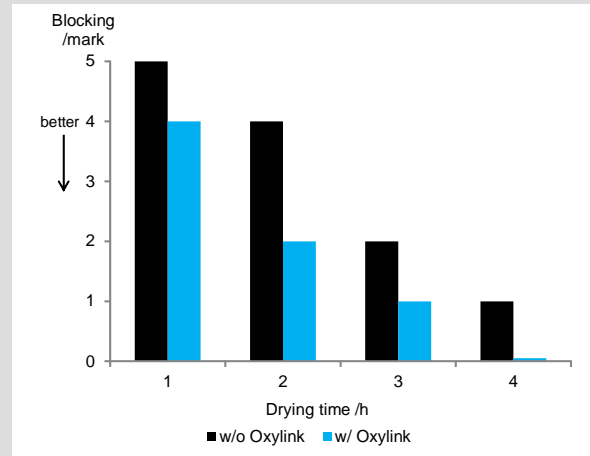
Oxylink™ – Starting Point Formulation

Acr11V1

Oxylink reduces the drying time



Oxylink improves the blocking resistance



Drying stage 4: Determined according to DIN 53150

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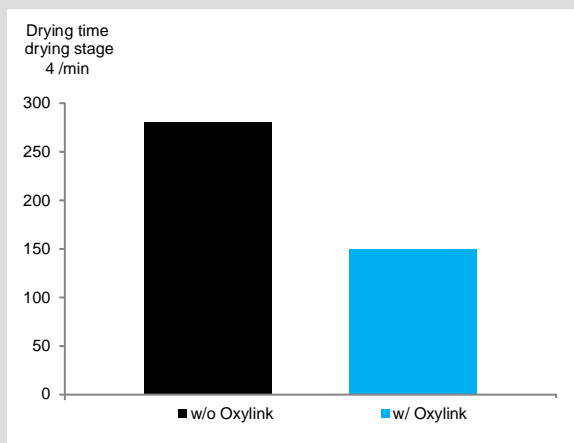
ACR12V1

Red pigmented direct-to-metal (DTM) coating based on WorléeCryl 7461.

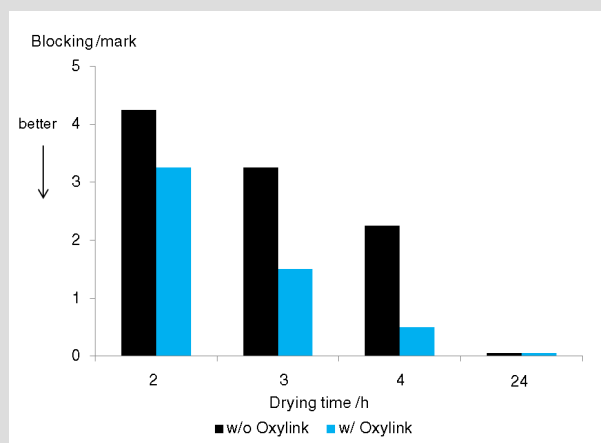
Updated: 05/13

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
Water	5.3	5.3	
Disperbyk 190	1.5	1.5	Byk-Chemie
Byk 023	0.1	0.1	Byk-Chemie
Kronos 2190	16.8	16.8	Kronos
Tafigel PUR 60	0.1	0.1	Münzing Chemie
WorléeCryl 7461	38.0	38.0	Worlee-Chemie
Water	2.3	2.3	
Ethylene glycol	3.1	3.1	
Tafigel PUR 80	0.1	0.1	Münzing Chemie
Water	13.5	13.5	
Oxylink 3101	0.0	1.0	Bühler
Luconyl Rot 2817	18.2	18.2	BASF
Total	99.0	100.0	

Oxylink reduces the drying time



Oxylink increases the blocking resistance



Drying stage 4: Determined according to DIN 53150

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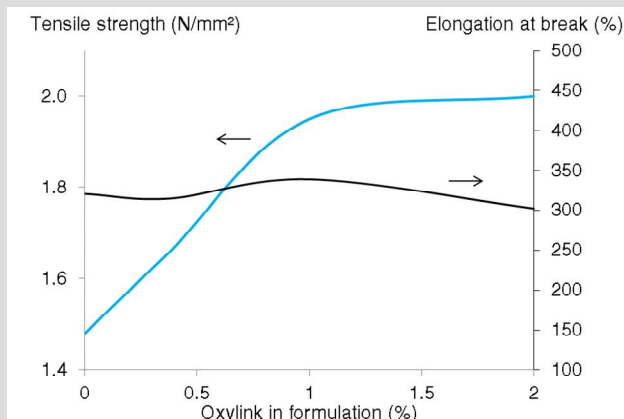
Acr13V1

White elastomeric roof coating based on Primal EC 1791 E.

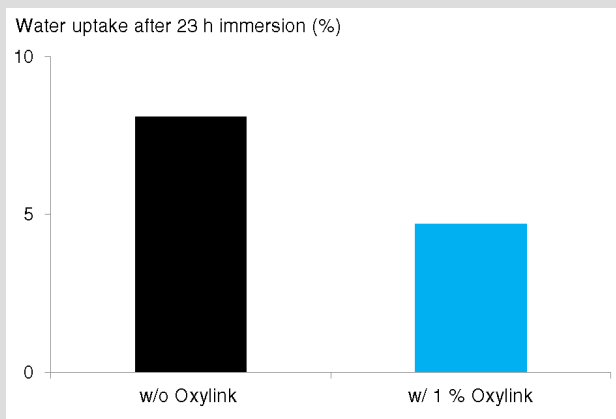
Updated: 04/13

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
Pigment grind:			
Water	13.30	13.30	
Orotan 850	0.42	0.42	Dow Chemical
Potassium triphosphat	0.12	0.12	
Nopco NXZ	0.17	0.17	San Nopco
TiPure 706	36.81	36.81	DuPont
TiPure R960	6.14	6.14	DuPont
Let down:			
Primal EC 1791 E	41.15	41.15	Dow Chemical
Nopco NXZ	0.07	0.07	San Nopco
Texanol	0.61	0.61	Eastman
Ammonia 10 % in water	0.21	0.21	
Oxylink 3101	0.00	1.00	Bühler
Total	99.00	100.00	

Oxylink increases the tensile strength without affecting the elongation at break.



Oxylink reduces the water uptake.



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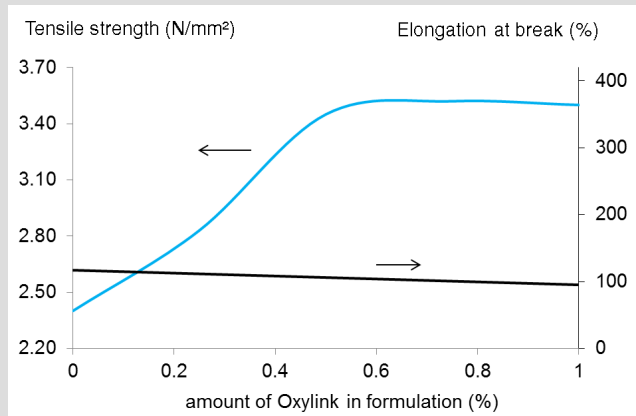
Acr14V1

White elastomeric roof coating based on Acronal NX 3250.

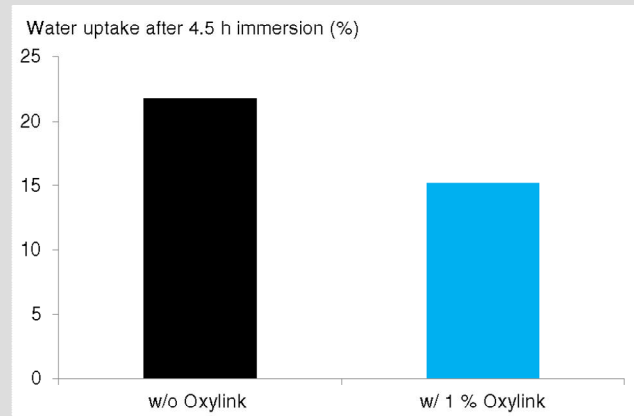
Updated: 04/13

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
Pigment grind:			
Water	6.9	6.9	
1,2-Propanediol	0.3	0.3	
Pigmentverteiler NL	1.1	1.1	BASF
Byk 035	0.9	0.9	Byk-Chemie
Kronos 2190	21.2	21.2	Kronos
DRB 8/25	13.7	13.7	Imerys
Imercarb	0.9	0.9	Imerys
Microtalk IT	5.1	5.1	Mondo Minerals
Ammonia10 %	0.4	0.4	
Byk 035	0.6	0.6	Byk-Chemie
Let down:			
Acronal NX 3250	43.2	43.2	BASF
Water	5.1	5.1	
Oxylink 3101	0.0	1.0	Bühler
Total	99.0	100.0	

Oxylink increases the tensile strength without affecting the elongation at break.



Oxylink reduces the water uptake.



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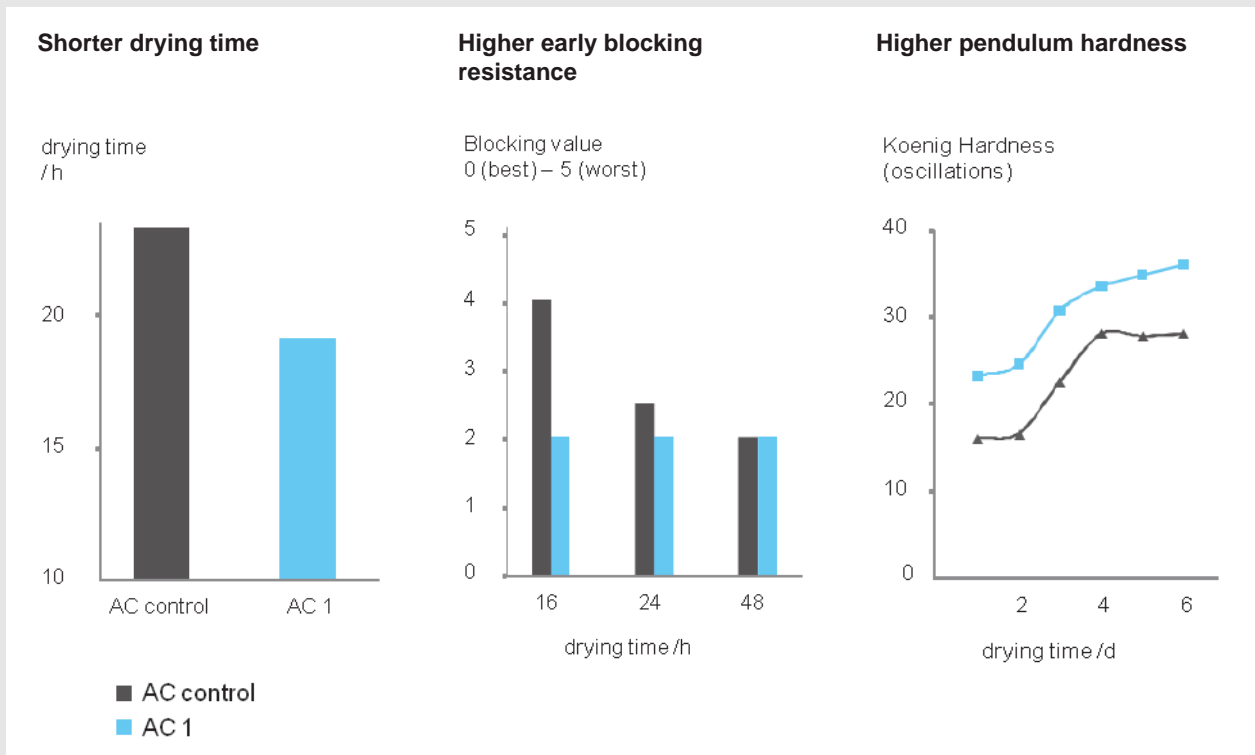
Oxylink™ – Starting Point Formulation

Alk01

Wood coating based on a long oil, oxidatively drying acrylated alkyd resin

Updated: 02/11

Formulations			
Ingredients	AC control	AC1	Supplier
Worlesol AC 35	82.1	82.1	Worlee-Chemie, Germany
Water	16.4	16.4	
Byk 346	0.08	0.08	Byk Chemie, Germany
Additol VXW 4940	0.4	0.4	Cytec, USA
Oxylink 3103	0.0	1.0	Bühler AG, Switzerland



Other performance properties (gloss, viscosity, and adhesion) of the coating were not altered by addition of Oxylink 3103.

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Oxylink™ – Starting Point Formulation

Alk02V1

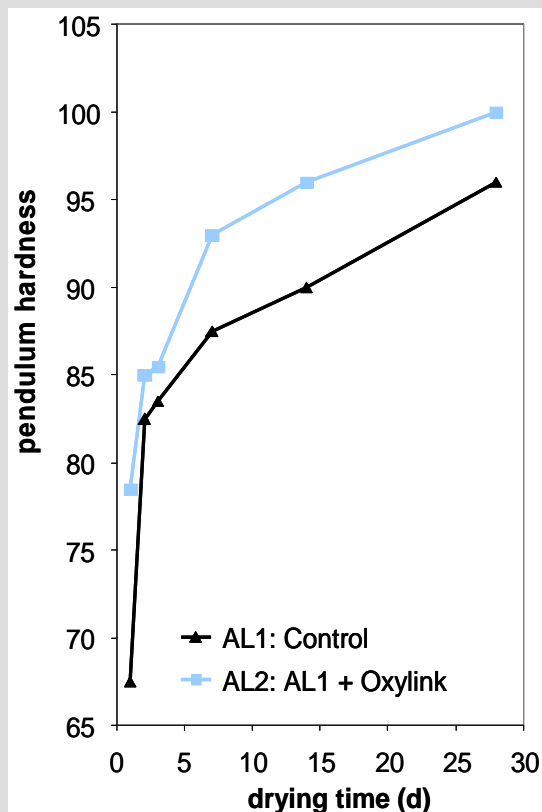
Matt water thinnable alkyd wood coating based on WorleeSol E 927 W

Updated: 11/10

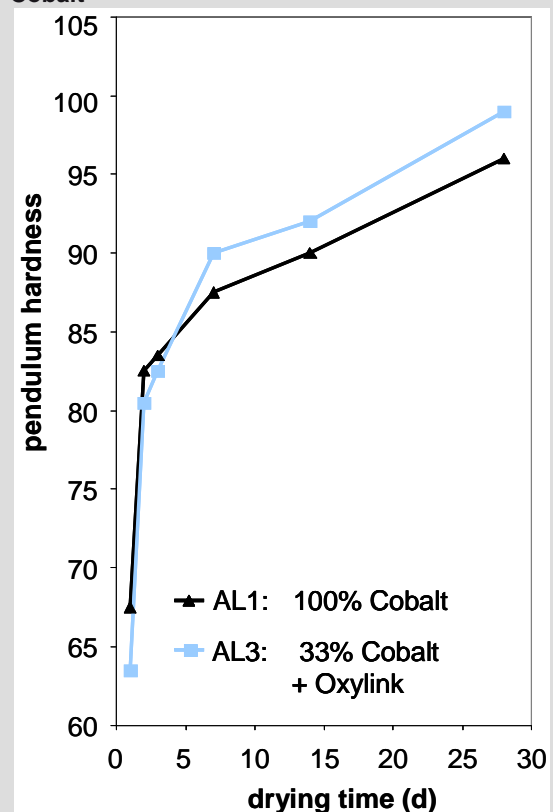
Formulations				
Ingredients	Control AL1 kgs	AL2 kgs	AL3 kgs	Supplier
WorleeSol E 927 W	93.6	93.6	93.6	Worlee-Chemie, Germany
Ceraflour 920	3.0	3.0	3.0	Byk Chemie, Germany
Acrysol RM 2020	1.0	1.0	1.0	Dow, USA
Dow Corning 67 Additive	0.5	0.5	0.5	Dow Corning, USA
Additol VXW 4940 (1:1 dil. with water)	1.9	1.9	0.63	Cytec, USA
Oxylink 3101		1.0	1.0	Bühler AG, Switzerland

Homogenize with high shear.

Oxylink provides faster hardness development



Oxylink enables a significant reduction of Cobalt



All other performance properties (gloss, viscosity, adhesion) of the coating were not altered by addition of Oxylink 3101

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Oxylink™ – Starting Point Formulation

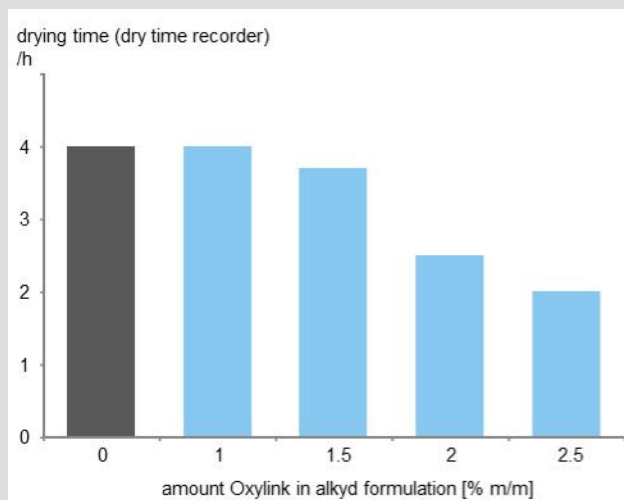
ALK03V1

Air drying white pigmented waterborne alkyd coating for metals on yachts based on Resydrol AY 6150w.

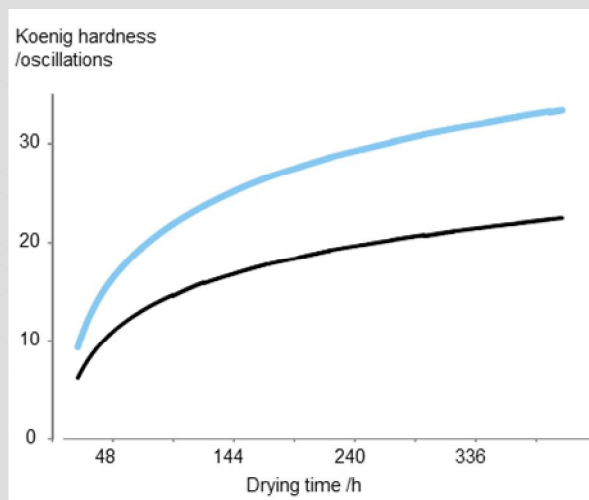
Updated: 09/12

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
Cytec Resydrol AY 6150w	67.96	67.96	Cytec Industries, Inc.
Ammonia, 25 %	0.19	0.19	
AMP (Aminomethylpropanol)	0.09	0.09	
Additol XL 297	0.28	0.28	Cytec Industries, Inc.
Additol VXL 4930	0.66	0.66	Cytec Industries, Inc.
Kronos 2190	6.72	6.72	Kronos Worldwide, Inc.
Additol VXW 6387	0.38	0.38	Cytec Industries, Inc.
Additol VXW 6208	0.66	0.66	Cytec Industries, Inc.
Additol XW 376	0.38	0.38	Cytec Industries, Inc.
Water	17.51	17.51	
Acrysol RM 8W	1.33	1.33	The Dow Chemical Company
Additol VXW 4940N (1:1 with water)	1.84	1.84	Cytec Industries, Inc.
Oxylink 3103	—	2.00	Bühler AG
Total	98.00	100.00	

Oxylink reduces drying time.



Oxylink accelerates hardness development.



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Oxylink™ – Starting Point Formulation

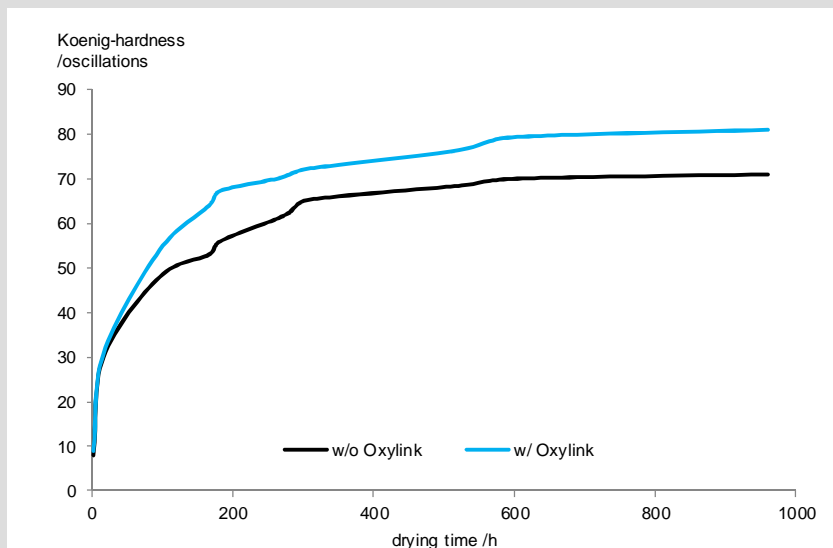
Alk04V1

White pigmented decorative paint for wood based on WorleeSol E150W.

Updated: 02/13

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
<i>Pigment grind</i>			
Water	9.6	9.6	
Borchi Gel 0434	1.2	1.2	OMG Borchers GmbH
Byk 093	0.2	0.2	Byk Chemie GmbH
Borchi GEN 0650	0.5	0.5	OMG Borchers GmbH
Borchi Gol LA2	0.3	0.3	OMG Borchers GmbH
AMP	0.1	0.1	
Kronos 2360	23.8	23.8	Kronos Worldwide, Inc.
Grind till Hegman > 7			
<i>Let down</i>			
WorleeSol E 150W	59.4	59.4	Worlee-Chemie GmbH
1,2-Propandiol	3.0	3.0	
Oxylink 3101		1.0	Buhler Inc.
Additol VXW 4940 (1:1 with water)	1.0	1.0	Cytec Industries, Inc.
Total	99.1	100.1	

Oxylink accelerates hardness development and increases final Koenig hardness.



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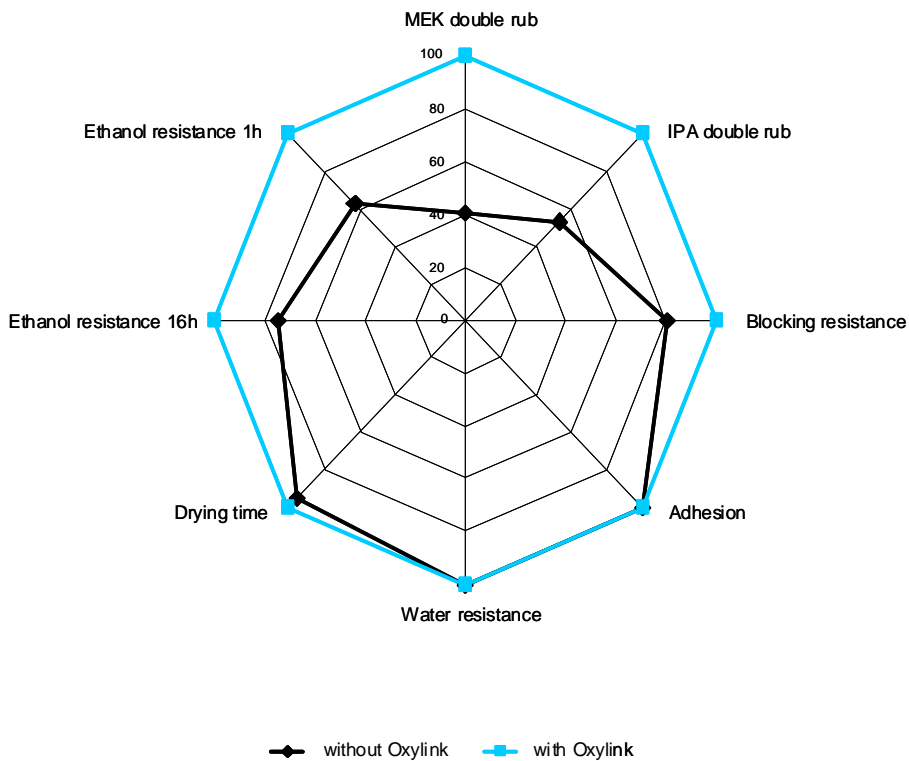
Oxylink™ – Starting Point Formulation

PUD01V1

Matt coating for wood based on waterborne PUD, Bayhydrol UH 2593/1

Updated: 11/10

Ingredients	kgs	Supplier
Bayhydrol UH 2593/1	87.3	Bayer Material Science, USA
Diethylene glycol monobutyl ether / water 1/1	9.6	
Byk 346	0.2	Byk-Chemie, Germany
Byk 028	1.1	Byk-Chemie, Germany
Acematt TS 100	0.8	Evonik, Germany
Oxylink 3101	1.0	Bühler AG, Switzerland



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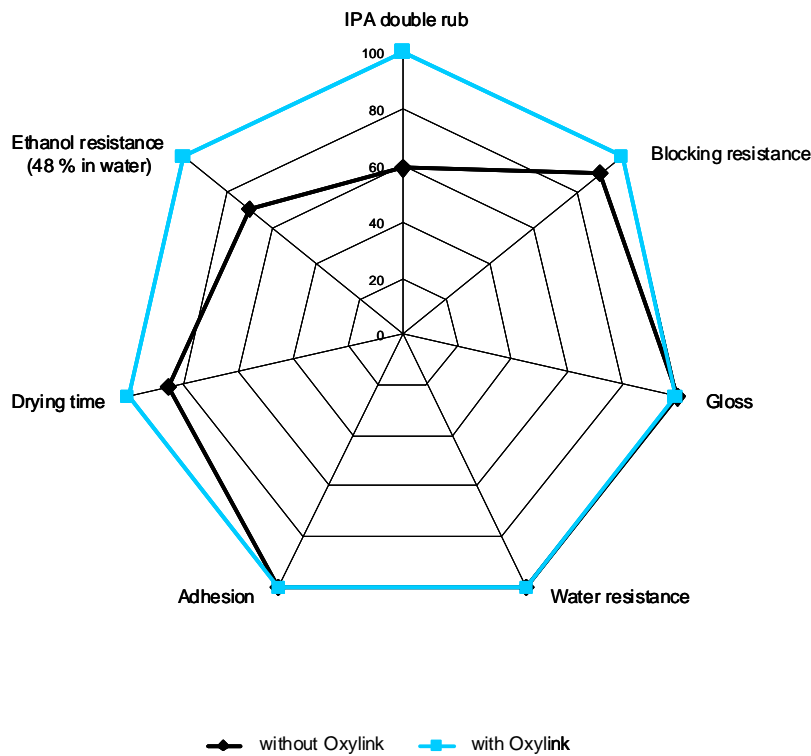
Oxylink™ – Starting Point Formulation

PUD02V1

High gloss clear coat for wood based on waterborne PUD, Sancure 825

Updated: 11/10

Ingredients	kgs	Supplier
Sancure 825	82.9	Lubrizol, USA
Water	12.9	
Dowanol DPM	1.8	Dow, USA
Diethylene glycol monobutyl ether	0.3	
Surfynol 104H	0.6	Air Products, USA
Surfynol 465	0.2	Air Products, USA
Byk 346	0.3	Byk-Chemie, Germany
Oxylink 3101	1.0	Bühler AG, Switzerland



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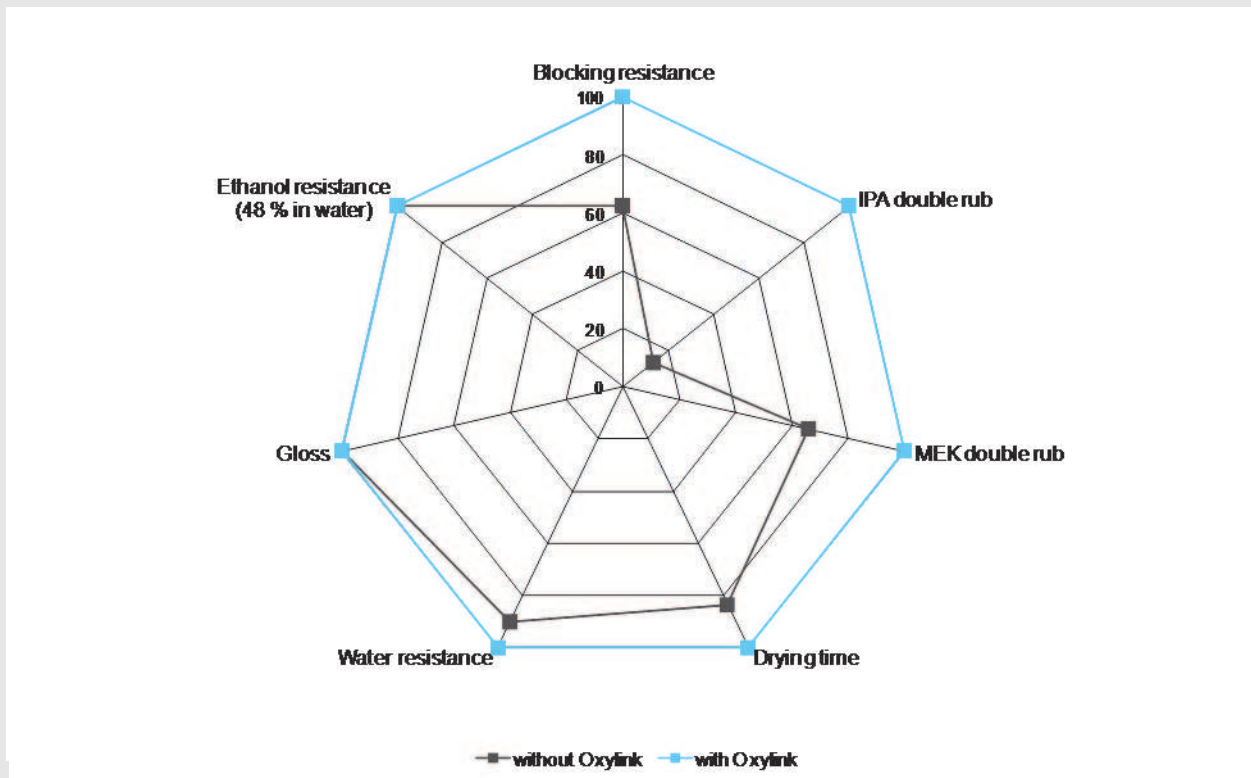
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Clear coat for wood based on waterborne PUD Alberdingk U 9150 VP

Updated: 09/11

Ingredients	Without Oxylink kgs	With Oxylink/ kgs	Supplier
Alberdingk U 9150	77.2	77.2	Alberdingk Boley, Germany
Hydropalat 140	0.4	0.4	Cognis, Germany
Tego Foamex 822	0.6	0.6	Evonik, Germany
Acemat TS 100	1.0	1.0	Evonik, Germany
Diethylene glycol monobutylether.	4.0	4.0	
Water	14.9	14.9	
Acrysol 2020	1.0	1.0	Dow, USA
Oxylink 3102		1.0	Bühler AG, Switzerland



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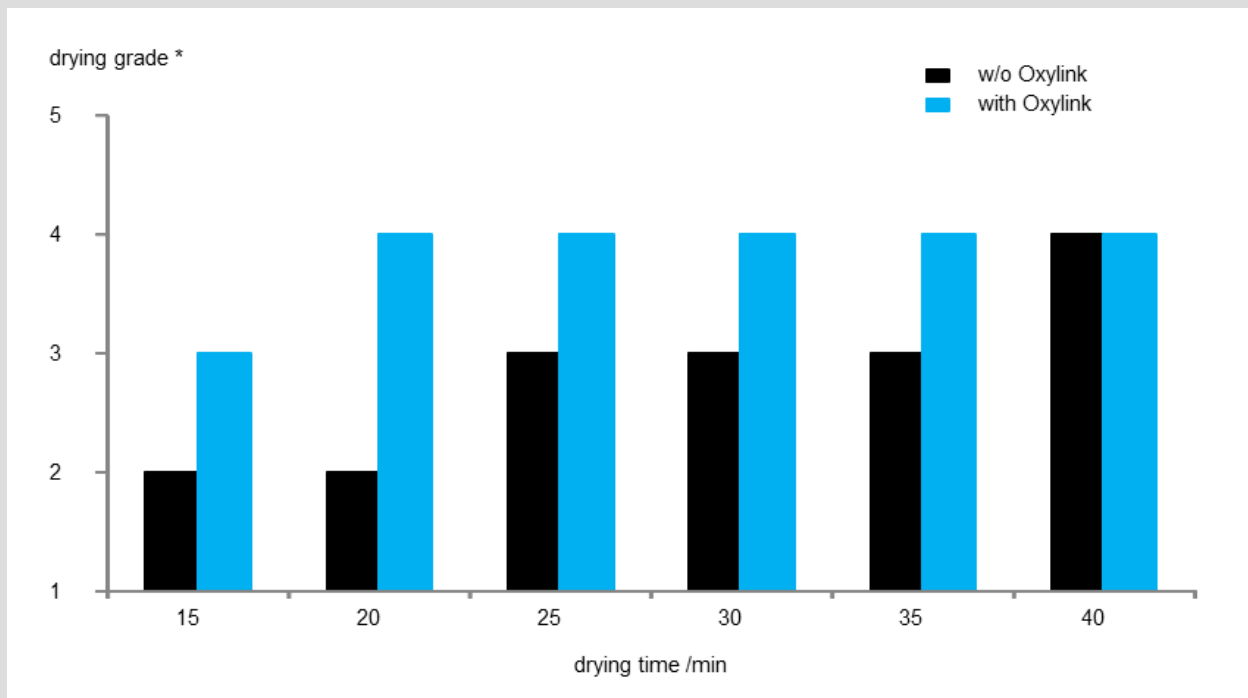
PUD 04V1

General clear coating for multiple surfaces based on Hybridur 878.

Updated: 12/12

Ingredients	Without Oxylink /kg	With Oxylink /kg	Supplier
Hybridur 878	86.1	86.1	Air Products, Inc.
Dowanol DPM	6.5	6.5	The Dow Chemical Company
Dowanol DPNB	6.5	6.5	The Dow Chemical Company
Oxylink 3103	—	1.0	Bühler AG

Oxylink reduces the drying time: Higher drying grade after shorter drying time.



* Drying grade according to DIN 53150 (Bandow-Wolff-Method). Higher drying grade = drier coating.
Drying grade 4: through-dry.

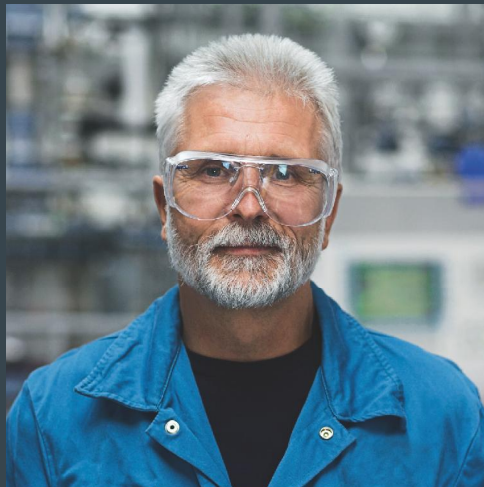
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Oxylink™

The additive for
better waterborne
coatings.



The ready-to-use performance additive.
Be green and better.



Oxylink™

Green.

Being green means responsible use of resources: Less emissions, less energy, and lower environmental impact. In the paint industry, water based coatings are the most prominent way to become green. Oxylink™ is one of Bühler's contributions to being green.

Oxylink™ makes waterborne coatings better, so they can be used where they couldn't be used before.

Flexible.

Oxylink™ is applicable in clear as well as in pigmented systems, in satin and glossy coatings. It is easy to handle and ready-to-use. It benefits coatings for wood and fiber boards, paper and plastics, metals, concrete and asphalt, vitreous and other siliceous substrates.

Oxylink™ – the solution for a broad variety of applications.



Fast.

Time is money: Oxylink™ reduces drying time and tackiness. The additive increases the productivity of your coating process or printing line. As a result, your production process runs faster and more efficient. Therefore, Oxylink™ is your contribution to save resources and to reduce CO₂-footprint.

Oxylink™ saves you money by increasing your productivity.

Strong.

Oxylink™ is a high-tech additive based on nano-technology. The additive improves the cross-linking of the resin from within and thus strengthens the film against impact from the outside.

Oxylink™ brings performance improvements in:

- Humidity resistance
- Chemical resistance
- Corrosion resistance
- Drying time
- Blocking resistance
- Hardness
- Dirt pick-up resistance
- Efflorescence resistance

For comprehensive technical information on Oxylink™ including

- Starting point formulas
- Technical product description
- Technical data sheet
- Safety data sheet
- Technical advice

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