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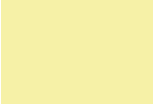

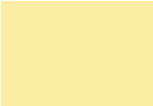

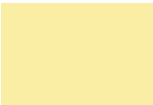












FOR DECORATIVE PAINTS
AND COATINGS
COLANYL® 500
HOSTATINT™ 500



BRIGHTER COLORS.
BRIGHTER LIFE.

COLANYL

PRODUCT NAME




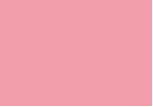














TT	ST ¹ / ₂₅	
		YELLOW 5GX 530
		YELLOW FGL 531
		YELLOW H3G 530
		YELLOW 2GXD 530
		YELLOW G 530
		YELLOW HRD 530
		ORANGE H5GD 500
		RED GG 531
		SCARLET GO 533

Colour Index C.I. No. Light fastness Weathering fastness Tinting strength Pigment content Density

	TT	ST ¹ / ₂₅	TT	ST ¹ / ₂₅	g/kg TiO ₂	approx. %	g/cm ³
P.Y. 74 11741	6	5	3-4	2	11	40	1.14
P.Y. 97 11767	7d	7	4-5	3-4	59	38	1.15
P.Y. 154 11781	8	8	5	5	120	30	1.13
P.Y. 74 11741	7	6-7	4	3	34	41	1.19
P.Y. 1 11680	6	5	3-4	2	25	45	1.17
P.Y. 83 21108	7d	6-7	4	3	29	50	1.18
P.O. 62 11775	8	7	4-5	4	47	30	1.17
P.O. 5 12075	6-7d	5-6	3-4	3	63	45	1.24
P.R. 168 59300	8	8	5	5	89	36	1.24

COLANYL










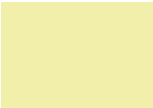






PRODUCT NAME

TT	ST ¹ / ₂₅	
		RED D3GD 532
		RED HF3S 530
		RED FGRD 530
		RED FGR 531
		RED E3B 531
		PINK E 532
		PINK E-WD 531
		VIOLET RL 532
		BLUE A2R 531

Colour Index C. I. No.	Light fastness	Weathering fastness	Tinting strength	Pigment content	Density		
	TT	ST ¹ / ₂₅	TT	ST ¹ / ₂₅	g/kg TiO ₂	approx. %	g/cm ³
P.R. 254 56110	8	8	4-5	4	24	50	1.24
P.R. 188 12467	6	6	3-4	3-4	50	40	1.16
P.R. 112 12370	7-8	6	4-5	3	35	45	1.17
P.R. 112 12370	7	5	4	3	21	47	1.20
P.V. 19 73900	7-8	7-8	4d	4-5	68	30	1.14
P.R. 122 73915	7-8	7-8	4d	4-5	73	20	1.08
P.R. 122 73915	7-8	7-8	4d	4-5	47	32	1.14
P.V. 23 51319	7-8	7	4-5	4	17	30	1.12
P.B. 15:1 74160	8	7-8	5	4-5	13	40	1.20

COLANYL






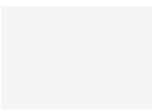
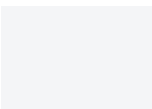
PRODUCT NAME

TT	ST ¹ / ₂₅	
		BLUE B2G 530
		GREEN GG 531
		BLACK N 530
		BLACK N 511
		OXIDE YELLOW BV 531
		OXIDE YELLOW R 532
		OXIDE RED G 531
		OXIDE RED B 531

Colour Index C. I. No.	Light fastness	Weathering fastness	Tinting strength	Pigment content	Density		
	TT	ST ¹ / ₂₅	TT	ST ¹ / ₂₅	g/kg TiO ₂	approx. %	g/cm ³
P.B. 15:3 74160	8	7-8	5	4-5	14	45	1.23
P.G. 7 74260	8	7-8	5	4-5	27	50	1.34
P.Bl. 7 77266	8	8	5	5	18	43	1.28
P.Bl. 7 77266	8	8	5	5	18	40	1.25
P.Y. 184 771740	8	8	5	5	79	65	2.22
P.Y. 42 77492	8	8	5	5	117	64	2.00
P.R. 101 77491	8	8	5	5	66	65	2.16
P.R. 101 77491	8	8	5	5	80	70	2.35

COLANYL

PRODUCT NAME

TT	ST ¹ / ₂₅	
		OXIDE BLUE COR 531
		OXIDE GREEN G 531
		OXIDE BLACK B 533
		OXIDE BLACK IR 531
		WHITE R 530
<i>Not illustrated</i>		EXTENDER MS 531

Colour Index C. I. No.	Light fastness	Weathering fastness	Tinting strength	Pigment content	Density
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	TT	ST ¹ / ₂₅	TT	ST ¹ / ₂₅	g/kg TiO ₂	approx. %	g/cm ³
P.B. 28 77346	8	8	5	5	393	62	1.96
P.G. 17 77288	8	8	5	5	255	75	2.59
P.Bl. 11 77499	8	8	5	5	146	53	1.80
P.G. 17 77288	8	8	5	5	164	70	2.38
P.W. 6 77891	8	8	5	5	-	65	2.04
-	8	8	5	5	-	60	1.68

PIGMENT PREPARATIONS

COLANYL® 500

GENERAL

Colanyl 500 is a range of aqueous, binder free pigment preparations manufactured without using alkyl phenol ethoxylated (APEO) additives. They are used for the efficient coloration of water-based decorative coatings. Colanyl 500 products are based on non-ionic and/or anionic wetting and dispersing agents. Their rheological profile allows exact dosing in automatic and manual dispensers as well as straightforward incorporation into base paints. Furthermore, processing of Colanyl 500 preparations is facilitated by their excellent stability to settling and skinning.

VOLATILE ORGANIC COMPOUNDS (VOC)

Colanyl 500 is a product range specially developed for modern low VOC decorative coatings^[1]. They are regularly analyzed according to the official VOC test norm DIN EN ISO 11890-2 (Directive 2004/42/EC).

MISCIBILITY AND DILUTION

All Colanyl 500 preparations are compatible in all proportions with each other. Tinting strength can be reduced by adding Colanyl Extender MS 531. It is based on colorless inorganic fillers and is especially developed for the Colanyl 500 range. The advantage of using Colanyl Extender MS 531 instead of water: the balance of wetting agents, humectants, biocides and other additives remains on the same level. Stability and rheological profile remains virtually unchanged.

SPECIFICATIONS

Specifications of the Colanyl 500 range include narrow tolerances for gravimetric tinting strength as well as for colorimetric values dH, dC and dE.

Gravimetric tinting strength	± 2%
Volumetric tinting strength	± 3%
dH	± 0.4
dC	± 0.6
dE	≤ 0.7

FIELD OF APPLICATION

The main applications of Colanyl 500 are decorative paints based on aqueous emulsion paints and plasters/renderings based on aqueous polymer dispersions. They can be incorporated into aqueous wood stains, acrylic and polyester casting systems, latex and water resistant inks. They are also compatible with other binder systems, e. g. aqueous industrial paints. However, maximum dosage level and compatibility of Colanyl 500 preparations have to be checked in the respective customer paint system.

[1] Colanyl Blue B2G 530 and Colanyl Violet RL 532 include up to approx. 2200 ppm VOC (Volatile Organic Compounds). All other Colanyl 500 preparations include up to approx. 800 ppm VOC (Tested according to Directive 2004/42/EC, annex II, phase II). VOC standards and regulations vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

IMPORTANT NOTES

Since the dosage level influences paint properties tests must be performed in customer's paint to determine the optimal level of Colanyl 500.

Quality of color shade in interior and exterior applications is influenced by

- Type of coating system
 - Type of binder and pigment volume concentration (PVC)
 - Water vapor permeability
- Alkalinity of the substrate
- Geographical position of the facade
- Final concentration of the pigment in application (N.B.: the lower the concentration of pigment the more critical is the color stability)
- Physical and chemical properties of the pigment

It is essential to test the pigment preparation in the final coating system in various concentrations. For use in coatings with high alkalinity or high water vapor permeability such as

- Lime paints or lime plasters
- Silicate paints or silicate plasters
- Silicone resin paints or silicone resin plasters
- Cement

We do recommend Colanyl Oxides types only. These types generally have larger particles and better chemical resistance than organic pigments. Generally speaking: only inorganic pigments are recommended for exterior/facade application. Colanyl Oxide Yellow BV 531 behaves differently in systems with alkalinity, especially in very low concentration. The properties of bismuth vanadate pigment can cause a color fading and intensive pretests in the respective base are necessary.

ABBREVIATIONS AND EXPLANATORY NOTES

TT	Deep shade, 5% (weight percent) Colanyl 500 in deep shade emulsion paint (1% titanium dioxide).
ST $\frac{1}{25}$	Standard color depth $\frac{1}{25}$, DIN 53235.
Light fastness	According to DIN EN ISO 105-B01 (assessment against blue wool scale).
Weathering fastness	One year exposure in Central Europe; assessment against grey scale (DIN EN ISO 105-A02).
d	Becomes darker
Tinting strength	Values given for tinting strength indicate how many grams of Colanyl 500 are necessary to colorize 1000 g of TiO ₂ to standard color depth $\frac{1}{25}$. The higher the value the weaker the pigment preparation.
Pigment content	The approximate pigment content in % must be regarded solely as a guide value. The crucial criterion in standardization is the tinting strength.
Density	Density is determined with deaerated product according to DIN EN ISO 2811-1.

The pigment preparations illustrated were produced by a special printing method; slight shade deviations are therefore possible. The prints cannot be used for testing fastness properties.

PRODUCT NAME

COLANYL
YELLOW 5GX 530
YELLOW FGL 531
YELLOW H3G 530
YELLOW 2GXD 530
YELLOW G 530
YELLOW HRD 530
ORANGE H5GD 500
RED GG 531
SCARLET GO 533
RED D3GD 532
RED HF3S 530
RED FGRD 530
RED FGR 531
RED E3B 531
PINK E 532
PINK E-WD 531
VIOLET RL 532*
BLUE A2R 531
BLUE B2G 530*
GREEN GG 531
BLACK N 530
BLACK N 511
OXIDE YELLOW BV 531
OXIDE YELLOW R 532
OXIDE RED G 531
OXIDE RED B 531
OXIDE BLUE COR 531
OXIDE GREEN G 531
OXIDE BLACK B 533
OXIDE BLACK IR 531
WHITE R 530
EXTENDER MS 531

COMPOSITION


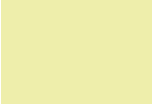
















Density	Pigment content	Water	Total solids
g/cm ³	approx. %	%	%
1.14	40	42	58
1.15	38	35	65
1.13	30	53	47
1.19	41	39	61
1.17	50	36	64
1.18	50	31	69
1.17	30	37	63
1.24	45	33	67
1.24	36	38	62
1.24	50	34	66
1.16	40	40	60
1.17	45	39	61
1.20	47	30	70
1.14	30	41	59
1.08	20	44	56
1.14	32	43	57
1.12	30	43	57
1.20	40	38	62
1.23	45	39	61
1.34	50	29	71
1.28	43	37	63
1.25	40	39	61
2.22	65	20	80
2.00	64	22	78
2.16	65	21	79
2.35	70	17	83
1.96	62	21	79
2.59	75	13	87
1.80	53	29	71
2.38	70	16	84
2.04	65	18	82
1.68	60	22	78

Data may vary, since Colanyl pigment preparations are standardized on tinting strength.

* Due to composition of raw materials, VOC-level of 700ppm might be exceeded.

HOSTATINT

PRODUCT NAME

TT	ST ¹ / ₂₅	
		YELLOW 12G 531
		YELLOW 2GX 531
		YELLOW 4GX 531
		YELLOW FGL 532
		YELLOW HR 533
		ORANGE HLD 533
		SCARLET GO 531
		RED FGR 532
		RED D3GD 532

Colour Index C.I. No.	Light fastness	Weathering fastness	Tinting strength	Pigment content	Density		
	TT	ST ¹ / ₂₅	TT	ST ¹ / ₂₅	g/kg TiO ₂	approx. %	g/cm ³
P. Y. 3 11710	6-7	5-6	4	2-3	47	40	1.18
P.Y. 74 11741	7	6-7	4	3	43	40	1.15
P.Y. 73 11738	7d	5	3-4	2	32	38	1.16
P.Y. 97 11767	7d	7	4-5	3-4	49	40	1.14
P.Y. 83 21108	6d	4	2-3	1	36	15	1.09
P.O. 36 11780	7-8	7-8	4-5	4-5	231	20	1.13
P.R. 168 59300	8	8	5	5	85	35	1.24
P.R. 112 12370	7	5	4	3	54	21	1.13
P.R. 254 56110	8	8	4-5	4	37	30	1.15

HOSTATINT

PRODUCT NAME

TT	ST 1/25	
		PINK E 532
		VIOLET RL 533
		BLUE B2G 531
		GREEN GG 531
		BLACK GR 532

Colour Index C. I. No.	Light fastness	Weathering fastness	Tinting strength	Pigment content	Density
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	TT	ST 1/25	TT	ST 1/25	g/kg TiO ₂	approx. %	g/cm ³
P.R. 122 73915	7-8	7-8	4d	4-5	73	20	1.10
P.V. 23 51319	7-8	7	4-5	4	23	15	1.11
P.B. 15:3 74160	8	7-8	5	4-5	20	30	1.14
P.G. 7 74260	8	7-8	5	4-5	42	30	1.18
P.Bl. 7 77266	8	8	5	5	34	20	1.13

HOSTATINT

PRODUCT NAME

TT	ST ¹ / ₂₅	
		OXIDE YELLOW BV 531
		OXIDE YELLOW R 533
		OXIDE RED B 533
		UMBER KT 533
		OXIDE BLUE COR 531
		OXIDE GREEN CO 533
		OXIDE GREEN G 532
		OXIDE BLACK B 533
		WHITE R 531

Colour Index C.I. No. Light fastness Weathering fastness Tinting strength Pigment content Density

	TT	ST ¹ / ₂₅	TT	ST ¹ / ₂₅	g/kg TiO ₂	approx. %	g/cm ³
P.Y. 184 771740	8	8	5	5	86	65	2.07
P.Y. 42 77492	8	8	5	5	122	60	1.87
P.R. 101 77491	8	8	5	5	81	68	2.24
Mix -	8	8	5	5	179	65	2.03
P.B. 28 77346	8	8	5	5	395	65	2.05
P.G. 50 77377	8	8	5	5	305	65	2.06
P.G. 17 77288	8	8	5	5	313	60	2.16
P.Bl. 26 77537	8	8	5	5	189	70	2.34
P.W. 6 77891	8	8	5	5	-	70	2.17

HOSTATINT

PRODUCT NAME

Colour
Index
C.I. No.

Light
fastness

Weathering
fastness

Tinting
strength

Pigment
content

Density

TT ST 1/25

EXTENDER MS 532



Not illustrated

EXTENDER CC 532

TT ST 1/25 TT ST 1/25 g/kg TiO₂ approx. % g/cm³

- - - - - - 55 1.59

- - - - - - 30 1.28

Pigments Coatings

HOSTATINT™ 500

GENERAL

Hostatint 500 is a range of binder-free pigment preparations manufactured without using alkyl phenol ethoxylated (APEO) additives. These multipurpose pigment preparations are compatible with water-based and solvent-based low VOC decorative coatings^[1]. When used in manual or automatic dispensers, these universal pigment preparations show excellent accuracy and reliability when being poured or pumped. Furthermore, processing of Hostatint 500 preparations is facilitated by their excellent stability to settling and skinning.

VOLATILE ORGANIC COMPOUNDS (VOC)

All Hostatint 500 pigment preparations are regularly analyzed according to the official VOC test norm DIN EN ISO 11890-2 (Test method Directive 2004/42/EC).

MISCIBILITY AND DILUTION

The individual grades are miscible in all proportions with each other. Color strength of Hostatint 500 can be reduced by adding Hostatint Extender CC 532 or Hostatint Extender MS 532. The use of Hostatint Extender preparation, instead of pure water, will provide a better balance between wetting agents, biocides and drying resistant agent.

SPECIFICATIONS

Specifications of the Hostatint 500 range include narrow tolerance for gravimetric tinting strength as well as for colorimetric values dH and dC.

Gravimetric tinting strength	± 3%
Volumetric tinting strength	± 5%
dH	± 0.5
dC	± 0.8

FIELD OF APPLICATION

Field of application for Hostatint 500 is similar to Colanyl 500 pigment preparations. Furthermore, Hostatint 500 is suitable for tinting solvent-based decorative paints, such as long oil alkyd paints. Since the dosage level of the binder-free Hostatint 500 influences the properties of the dried paint film, a final evaluation must be done in the customer's paint to reach the optimal amount.

ADDITIONAL FIELD OF APPLICATION

- Resin-based emulsion paints or renderings
- Lime paints or lime renderings (only Hostatint Oxide grades)
- Silicate paints or silicate renderings (only Hostatint Oxide grades)
- Silicone resin paints or silicone resin renderings (only Hostatint Oxide grades)
- Water-based alkyd emulsion paints
- Solvent-based alkyd paints
- Water-based and solvent-based industrial paint systems (maximum dosage level has to be considered)

Please also see section »Important notes«.

[1] As defined in Directive 2004/42/EC, annex II, phase II. VOC standards and regulations vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

IMPORTANT NOTES

Since the dosage level influences paint properties tests must be performed in customer's paint to determine the optimal level of Hostatint 500.

Quality of color shade in interior and exterior applications is influenced by

- Type of coating system
 - Type of binder and pigment volume concentration (PVC)
 - Water vapor permeability
- Alkalinity of the substrate
- Geographical position of the facade
- Final concentration of the pigment in application (N.B.: the lower the concentration of pigment the more critical is the color stability)
- Physical and chemical properties of the pigment

It is essential to test the pigment preparation in the final coating system in various concentrations. For use in coatings with high alkalinity or high water vapor permeability such as

- Lime paints or lime plasters
- Silicate paints or silicate plasters
- Silicone resin paints or silicone resin plasters
- Cement

we do recommend Hostatint Oxides types only. These types generally have larger particles and better chemical resistance than organic pigments. Generally speaking, only inorganic pigments are recommended for exterior/facade application. Hostatint Oxide Yellow BV 531 behaves differently in systems with alkalinity, especially in very low concentration. The properties of bismuth vanadate pigment can cause a color fading and intensive pretests in the respective base are necessary.

ABBREVIATIONS AND EXPLANATORY NOTES

TT	Deep shade, 5% (weight percent) Hostatint 500 in deep shade emulsion paint (1% titanium dioxide).
ST $\frac{1}{25}$	Standard color depth $\frac{1}{25}$, DIN 53235.
Light fastness	According to DIN EN ISO 105-B01 (assessment against blue wool scale).
Weathering fastness	One year exposure in Central Europe; assessment against grey scale (DIN EN ISO 105-A02).
d	Becomes darker
Tinting strength	Values given for tinting strength indicate how many grams of Hostatint 500 are necessary to colorize 1000 g of TiO ₂ to standard color depth $\frac{1}{25}$. The higher the value the weaker the pigment preparation.
Pigment content	The approximate pigment content in % must be regarded solely as a guide value. The crucial criterion in standardization is the tinting strength.
Density	Density is determined with deaerated product according to DIN EN ISO 2811-1.

The pigment preparations illustrated were produced by a special printing method; slight shade deviations are therefore possible. The prints cannot be used for testing fastness properties.

PRODUCT NAME**HOSTATINT****YELLOW 12G 531****YELLOW 2GXD 531****YELLOW 4GX 531****YELLOW FGL 532****YELLOW HR 533****ORANGE HLD 533****SCARLET GO 531****RED FGR 532****RED D3GD 532****PINK E 532****VIOLET RL 533****BLUE B2G 531****GREEN GG 531****BLACK GR 532****OXIDE YELLOW BV 531****OXIDE YELLOW R 533****OXIDE RED B 533****UMBER KT 533****OXIDE BLUE COR 531****OXIDE GREEN CO 533****OXIDE GREEN G 532****OXIDE BLACK B 533****WHITE R 531****EXTENDER MS 532****EXTENDER CC 532**

Data may vary, since Hostatint pigment preparations are standardized on tinting strength.

COMPOSITION

Density	Pigment content	Water	Total solids
g/cm ³	approx. %	%	%
1.18	40	37	63
1.15	40	35	65
1.16	38	37	63
1.14	40	39	61
1.09	15	43	57
1.13	20	40	60
1.24	35	39	61
1.13	21	49	51
1.15	30	39	61
1.10	20	56	44
1.11	15	52	48
1.14	30	43	57
1.18	30	39	61
1.13	20	46	54
2.07	65	15	85
1.87	60	19	81
2.24	68	15	85
2.03	65	4	96
2.05	65	15	85
2.06	65	11	89
2.16	60	21	79
2.34	70	8	92
2.17	70	11	89
1.59	55	22	78
1.28	30	39	61

HEUBACH GROUP

Marketing and Sales Coatings
Phone +49 69 305 39926 (Germany)

de.sales@heubachcolor.com
www.heubach.com

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BRIGHTER LIFE.