

COLORANTS FOR THE
PAINT INDUSTRY

PIGMENTS, PIGMENT PREPARATIONS AND DYES FROM HEUBACH

Heubach supplies pigments and dyes. These ranges, supplemented by pigment preparations, special formulations and special grades, contain a wide variety of products for the paint and surface coatings industry as well as for other special fields.

On the following pages we give a general overview of our colorants, indicating their possible uses in the main fields of application. Only the standard ranges of the pigments and dyes have been included here.

It is not appropriate to treat the other special grades, preparations and special dyes in the same way because they appear in the brochure as separate ranges with details of their special fields of application.

THE SYMBOLS MEAN:

- ☞ = highly recommended & dissolver dispersible
- = highly recommended
- = recommended
- = limited suitability

We would however point out that these recommendations are a general guide intended to make it easier selecting suitable products from our range of colorants.

Frequently required physical data of the pigments and additional technical details about the aqueous pigment preparations, such as pigment and solids content as well as type and amount of solvent, are given in the brochure.

Details of coloristic and fastness properties can be taken from the literature quoted and the following pattern cards:

PI 2013 E

Pigments - Automotive, decorative and industrial paints

PI 2003 E

Pigments for automotive paints

DP 8524 ED

Colorants for Powder Coatings

Our sales organizations and our technical service and development department will be pleased to give you further information at any time.

NOTES ON DIARYLIDE PIGMENTS

It has been known for some time that thermal degradation may occur when diarylide pigments are processed in polymers at temperatures above 200 °C.

Pigments supplied by Heubach with the following Colour Index numbers are such diarylide pigments:

Pigment Yellow 12
Pigment Yellow 13
Pigment Yellow 16
Pigment Yellow 17
Pigment Yellow 81
Pigment Yellow 83
Pigment Orange 13
Pigment Orange 34

The trade names of all commercial products recommended for the paint industry that are based on the above diarylide pigments can be found in this brochure (pages 28–30).

These products can form traces of aromatic amines at processing temperatures above 200 °C in the presence of polymers (see safety data sheets; further information is also given in ETAD INFORMATION NOTICE No. 2 »Thermal Decomposition of Diarylide Pigments« - September 1990).

CHARGE CONTROL AGENTS

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1 STANDARD RANGES OF PIGMENTS

1.1 HOSTAPERM®¹ PIGMENTS

The Hostaperm range comprises the pigments which are noted for very high fastness properties. Suitable grades are listed on the basis of excellent light and weathering fastness and satisfactory migration fastness.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

PRODUCT NUMBER	HOSTAPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
229419	OXIDE YELLOW BV 01	P.Y. 184	■	■	■	■	■	●	●	■	■	●	●	g/cm ³	m ² /g	ml/100g	nm
270141	OXIDE YELLOW BV 02	P.Y. 184	■	■	■	■	■	●	●	■	■	●	●	6.00	7	18	-
105095	YELLOW H6G	P.Y. 175	●	●	■	●	■	●	●	●	●	●	●	6.00	7	18	330
116674	YELLOW H4G	P.Y. 151	●	■	■	●	■	○	○	■	●	●	●	1.52	28	70	215
213632	YELLOW H4G 70	P.Y. 151	●	■	■	●	■	○	○	■	●	●	●	1.55	23	48	215
104899	YELLOW H3G	P.Y. 154	■	●	■	○	■	○	●	●	■	■	■	1.57	20	58	278
271059	YELLOW H3G 02	P.Y. 154	●	●	●	●	■	■	■	■	■	■	■	1.59	19	56	275
104963	ORANGE GR	P.O. 43	●	●	●	●	●	●	●	●	●	●	■	1.59	19	56	275
107272	SCARLET G0	P.R. 168	■	■	■	■	●	●	○	●	●	■	■	1.58	38	83	190
210275	RED D3G 70-CN	P.R. 254	●	●	●	●	■	■	●	●	●	●	●	2.08	33	70	220
322068	RED D2G 71	P.R. 254	■	■	■	■	■	■	●	●	●	●	●	1.60	27	55	280
322069	RED D2G 72	P.R. 254	■	■	■	■	■	■	●	●	●	●	●	1.55	16	51	310
108159	RED P2GL-WD	P.R. 179	■	●	●	■	●	●	○	○	○	○	○	1.55	16	51	310
105136	RED E2B 70	P.V. 19	■	●	■	○	●	○	●	○	○	○	○	1.56	-	35	45
104947	RED E3B	P.V. 19	●	●	■	■	■	●	●	○	●	●	●	1.46	31	85	220
104960	RED E5B 02	P.V. 19	●	●	■	■	■	●	●	○	●	●	●	1.48	41	59	195

■[∞] highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability - not measurable

PRODUCT NUMBER	HOSTAPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm		
104952	PINK E	P.R. 122	■	■	■	■	■	●	●	○	●	●	●	1.45	77	65	90
122089	PINK E-WD	P.R. 122					○	●				■	1.44	76	65	60	
245708	PINK E-WD 01	P.R. 122					●	■	⚡			●	■	1.45	77	65	90
105009	PINK EB TRANSP.	P.R. 122	■	■	■	○	●	○	●	○				1.47	80	78	55
104954	RED VIOLET ER 02	P.V. 19	■	■	■	■	■	●	●	○	●	●	●	1.49	83	68	70
197163	VIOLET BL 01	P.V. 23	■	■	■	■	■	●	●	●	●	●	●	1.50	103	70	50
303120	VIOLET RL SPEC. 01	P.V. 23	■	■	■	■	■	●	●	●	●	●	●	1.49	80	78	50
153605	BLUE A4R	P.B. 15:1	●	●	■	■	■	●	●	●		●	●	1.61	65	74	60
111221	BLUE BT-728-D	P.B. 15:1	■	■	■	■								1.68	86	82	40
107188	BLUE BT-729-D	P.B. 15:1	■	■	■	■								1.65	74	75	65
118350	BLUE BT-627-D	P.B. 15:2	■	■	■	■	●	●	●	●				1.55	57	64	60
225226	BLUE B2G 03	P.B. 15:3	■	■	■	○	■	⚡	■	●	■	■	■	1.61	52	54	95
118349	BLUE BT-617-D	P.B. 15:4	■	■	■	■	●	●	●	●				1.62	52	67	65
105775	GREEN GNX	P.G. 7	■	■	■	■	■	●	●	●	●	●	●	2.05	40	50	50
240262	GREEN GNX 01	P.G. 7	■	■	■	○	■	⚡	■	●	■	■	■	2.05	40	50	50
323292	GREEN GNX 02	P.G. 7	■	■	■	■	■	●	●	●	●	●	●	2.05	40	50	50
104981	BROWN HFR 01	P.BR. 25	■	■	■	■	●	●	●	○	●			1.52	90	86	80

■⚡ highly recommended & dissolver dispersible
 ■ highly recommended
 ● recommended
 ○ limited suitability
 - not measurable

1.2 NOVOPERM® PIGMENTS

Novoperm is the trade name for pigments with above-average fastness properties. These tried and tested products are suitable - depending on the grade - for use in the paint industry when the pigments have to meet special requirements.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

PRODUCT NUMBER	NOVOPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm		
105031	YELLOW FGL	P.Y. 97					●	●	●		○	■	■	1.39	14	55	255
107442	YELLOW F2G	P.Y. 194					■	●	●			■	●	1.46	19	98	315
187854	YELLOW 5GD 71	P.Y. 155	○	●	■	■	■	■	●	○	■	●	●	1.44	34	67	205
105067	YELLOW H2G	P.Y. 120		●			■	●	●			■		1.52	30	48	115
105774	YELLOW HR	P.Y. 83					●	●	●			●	●	1.43	27	87	40
116673	YELLOW HR 70	P.Y. 83	○	●	●	●	■	●	●			■	●	1.51	21	66	325
233288	YELLOW HR 72	P.Y. 83		●	●		■	■	●				■	1.51	21	66	325
105125	YELLOW M2R 70	P.Y. 139	●	●	■	■	■	○	●	○	■			1.75	20	45	220
105064	ORANGE H5G 70	P.O. 62	○	●	●	○	■	●	●			●	●	1.52	10	72	745
104984	ORANGE HL	P.O. 36					●	●	●			●	●	1.64	31	68	155
104950	ORANGE HL 70	P.O. 36	■	■	■	■	■	●	●	○	■	●	●	1.62	14	64	395
259606	ORANGE HL 71	P.O. 36	■	■	○	■	■	■	●		○	■	■	1.62	14	64	395
202382	RED HF3S	P.R. 188					●	●	●			●	■	1.47	22	74	145
182673	RED HF3S 70	P.R. 188	●	●	■	○	■	●	●	○	●	●	●	1.49	13	72	255
104971	RED F2RK 70	P.R. 170	●	●	●	●	●	●	●			●		1.40	19	60	315
105528	RED F3RK 70	P.R. 170	○	●		●	■	●	●			■		1.44	19	65	270
216357	RED F5RK	P.R. 170					■	●	●			■		1.40	25	69	215

■[~] highly recommended & dissolver dispersible

■ highly recommended

● recommended

○ limited suitability

- not measurable

1.2.1

NOVOPERM® PIGMENTS

not standardized in paint

PRODUCT NUMBER	NOVOPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
187853	YELLOW 4G 01	P.Y. 155					●	●	●	○	●			g/cm ³	m ² /g	ml/100g	nm
106582	YELLOW HR 02	P.Y. 83					●	●	●		●			1.45	38	75	115
118380	YELLOW P-M3R	P.Y. 139					●	●		○				1.49	74	79	55
107440	RED HFG	P.O. 38								○	●			1.65	60	55	75
104894	CARMINE HF4C	P.R. 185									●			1.46	67	87	165
104892	BORDEAUX HF3R	P.V. 32					●	●	●	○	●			1.48	52	90	165
							●	●	●	○	●			1.48	44	83	170

■ highly recommended ● recommended ○ limited suitability – not measurable

1.3 PERMANENT PIGMENTS

This group comprises of pigments that vary in fastness properties. Because of their high tinctorial strength, good gloss and largely good light fastness Permanent pigments are used in industrial and decorative paint systems.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

PRODUCT NUMBER	PERMANENT	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECO-RATIVE PAINTS		PHYSICAL DATA				
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles	
182674	ORANGE RL 70	P.O. 34					■	●	○		■				g/cm ³	m ² /g	ml/100g	nm
105526	RED FGR	P.R. 112					■	●	○		○	■	●		1.43	30	68	150
107456	RED FGR 02	P.R. 112					■	●	○			■	●		1.49	25	76	200
107972	RED FGR 70	P.R. 112					■	●	○		○	■			1.49	31	82	140
104887	BORDEAUX FRR	P.R. 12					○	○	○			■			1.48	11	48	295
															1.37	25	70	95

■ highly recommended ● recommended ○ limited suitability

1.3.1 PERMANENT PIGMENTS

not standardized in paint

PRODUCT NUMBER	PERMANENT	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS				DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption
													g/cm ³	m ² /g	ml/100g	nm
107472	YELLOW GG 02	P.Y. 17					○	○			○		1.36	23	114	85
240737	YELLOW DHG	P.Y. 12					○	○					1.39	31	96	100
107474	YELLOW GR 01	P.Y. 13					○	○			○		1.36	47	85	75
240721	LAKE RED LCLL	P.R. 53:1					○						1.80	58	72	115
104896	CARMINE FBB 02	P.R. 146					●	●	●				1.41	32	69	155

■ highly recommended ● recommended ○ limited suitability

1.4 HANSA® PIGMENTS

The Hansa Yellow pigments are noted for very good light fastness. Use of the Hansa Red grades should be restricted to full-shade colorations. The Hansa pigments do not have adequate fastness to overpainting. They are standard pigments for air-drying paints.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

PRODUCT NUMBER	HANSA	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
107257	YELLOW G 02	P.Y. 1					○	○	○			■	●	g/cm ³	m ² /g	ml/100g	nm
104885	YELLOW 10G	P.Y. 3					○	○	○			■	●	1.40	25	61	200
104915	YELLOW 10G 41 GRAN.	P.Y. 3					○	○	○			■	●	1.58	11	59	405
159753	BRILLIANT YELLOW 5GX	P.Y. 74					○	○	○			■	●	1.57	12	74	-
104968	BRILLIANT YELLOW 4GX	P.Y. 73					○	○	○			■	●	1.41	34	59	135
104970	BRILLIANT YELLOW 2GX 70	P.Y. 74					○	○	○			■	■	1.48	21	59	200
167583	BRILLIANT YELLOW 2GX 70-S	P.Y. 74					○	○	○			■	■	1.43	16	54	340
271730	BRILLIANT YELLOW 2GX 72-S	P.Y. 74					○	○				○	■	1.43	16	59	312
107255	RED GG	P.O. 5					○	○				■	○	1.39	21	59	312
200064	SCARLET RNC	P.R. 3					●		●			●		1.55	12	59	285
201224	RED 3B	P.R. 3					●		●			●		1.42	17	74	255
														1.42	9	55	405

■[∞] highly recommended & dissolver dispersible
 ■ highly recommended
 ● recommended
 ○ limited suitability
 - not measurable

1.5 OTHER PIGMENTS

not standardized in paint

1.5.1 PV FAST® PIGMENTS

Highly fast organic pigments with outstanding heat resistance, light fastness and bleeding fastness in various polymers. Because of their very good heat resistance, selected pigments can be used in special paint systems after preliminary trials.

PRODUCT NUMBER	PV FAST	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS				DECO-RATIVE PAINTS		PHYSICAL DATA			
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption
													g/cm ³	m ² /g	ml/100g	nm
104918	YELLOW HG	P.Y. 180							●	●			1.46	28	98	180
107497	YELLOW HGR	P.Y. 191							●	●			1.71	20	79	600
104917	YELLOW H3R	P.Y. 181	○	○	●				●	●			1.48	27	118	415
106616	ORANGE H4GL 01	P.O. 72							●	●			1.51	39	78	140
104949	RED B	P.R. 149							●	●			1.40	56	66	35
104935	BLUE A2R	P.B. 15:1								●			1.65	70	63	40
106313	BLUE BG	P.B. 15:3								■			1.62	57	61	95

■ highly recommended ● recommended ○ limited suitability

1.5.2 GRAPHTOL® PIGMENTS

Graphtol pigments have lower general fastness properties than the PV Fast pigments. Selected pigments can be used for low-cost powder coating formulations after preliminary trials.

PRODUCT NUMBER	GRAPHTOL	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS				DECO-RATIVE PAINTS		PHYSICAL DATA				
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
111720	YELLOW H2R	P.Y. 139												g/cm ³	m ² /g	ml/100g	nm
107509	RED LC	P.R. 53:1												1.66	59	66	75
239922	FIRE RED 3RLP	P.R. 48:3												1.82	42	70	160
219306	RUBINE L4B	P.R. 57:1												1.84	28	60	270
														1.66	68	67	76

○ limited suitability

2

NUMERICAL CODE AND SPECIAL GRADES

2.1

NUMERICAL CODE FOR ALTERATION OF STANDARDS AND SPECIAL GRADES

In the course of improving or further developing existing pigments / pigment preparations for special fields of application or special processing methods there is a need for modified grades or special grades, which are identified by adding a two-digit number to the pigment name. Each further modification to one and the same pigment is identified by the next consecutive number.

WE USE THE FOLLOWING SYSTEM:

01–19 Alteration of standards and improvements to individual pigments
(e.g. higher tinctorial strength, change in shade etc.).

30–39 Alteration of standards or improvements to pigment preparations with their own range name.

40–49 Pigments with improved dispersibility primarily for air-drying paints.

70–79 Highly opaque pigments with very good flow properties.

2.2

OPAQUE PIGMENTS FOR LEAD-FREE PIGMENTATIONS

HOSTAPERM OXIDE YELLOW BV 01
HOSTAPERM OXIDE YELLOW BV 02
HANSA BRILLIANT YELLOW 2GX 70
HANSA BRILLIANT YELLOW 2GX 70-S
NOVOPERM YELLOW 5GD 71
HOSTAPERM YELLOW H4G
HOSTAPERM YELLOW H4G 70
NOVOPERM YELLOW HR 70
NOVOPERM YELLOW M2R 70
NOVOPERM ORANGE H5G 70
NOVOPERM ORANGE HL 70
PERMANENT ORANGE RL 70
PERMANENT RED FGR 70
NOVOPERM RED HF3S 70
HOSTAPERM RED D3G 70-CN
HOSTAPERM RED D2G 71
HOSTAPERM RED D2G 72
NOVOPERM RED F2RK 70
NOVOPERM RED F3RK 70
HOSTAPERM RED E2B 70

2.3

TRANSPARENT PIGMENTS FOR EFFECT PAINTS

HOSTAPERM ORANGE GR
HOSTAPERM SCARLET GO
HOSTAPERM RED P2GL-WD
HOSTAPERM RED E5B 02
HOSTAPERM PINK E
HOSTAPERM PINK EB TRANSP.
HOSTAPERM RED VIOLET ER 02
HOSTAPERM VIOLET BL 01
HOSTAPERM VIOLET RL SPEC. 01
HOSTAPERM BLUE BT-728-D
HOSTAPERM BLUE BT-729-D
HOSTAPERM BLUE BT-627-D
HOSTAPERM BLUE A4R
HOSTAPERM BLUE BT-617-D
HOSTAPERM BLUE B2G 03
HOSTAPERM GREEN GNX
HOSTAPERM BROWN HFR 01

2.4

EASILY DISPERSIBLE (ED) PIGMENTS

HOSTAPERM YELLOW H3G 02
HANSA BRILLIANT YELLOW 2GX 72-S
NOVOPERM YELLOW HR 72
NOVOPERM ORANGE HL 71
HOSTAPERM PINK E-WD 01
HOSTAPERM BLUE B2G 03
HOSTAPERM GREEN GNX 01

3 PIGMENT PREPARATIONS

3.1 COLANYL® 100

Colanyl 100 is a range of aqueous, binder-free pigment preparations that is manufactured without using alkyl phenol ethoxylated (APEO) additives. The main application fields of the Colanyl 100 range are dispersion paints and renderings/plaster based on aqueous polymer dispersions. They are also compatible with other binder systems, e. g. water-based industrial paints, but the maximum dosage

level and compatibility of the binder-free Colanyl 100 has to be checked in the customer paint system itself. By using Colanyl 100 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Colanyl 100 pigment preparations are miscible in all proportions with each other. By adding Colanyl

PRODUCT NUMBER	COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER	GLYCOL
				g/cm ³	%	%	%	%
189173	YELLOW 10G 132	Yellow 3	11710	1.17	35	51	29	20
285168	YELLOW 5GX 131	Yellow 74	11741	1.14	46	54	26	20
304256	YELLOW FGL 133	Yellow 97	11767	1.12	38	52	30	18
288530	YELLOW H3G 131	Yellow 154	11781	1.14	30	40	40	20
211147	YELLOW 2GXD 130	Yellow 74	11741	1.17	48	57	18	25
211158	YELLOW G 132	Yellow 1	11680	1.17	50	56	24	20
292682	YELLOW HR 131	Yellow 83	21108	1.14	35	55	30	15
315089	YELLOW HRD 132	Yellow 83	21108	1.19	50	58	27	15
210058	ORANGE G 131	Orange 13	21110	1.17	40	47	36	17
204952	RED GG 131	Orange 5	12075	1.20	45	56	24	20
211159	RED FRLL 131	Red 9	12460	1.16	48	54	26	20
214915	SCARLET RNX 130	Red 3	12120	1.19	50	59	28	13
302495	SCARLET GO 131	Red 168	59300	1.22	35	51	29	20
187155	RED FGRG 130	Red 112	12370	1.18	47	53	21	26
187202	RED FGR 131	Red 112	12370	1.18	45	53	28	19
104988	RED E3B 130	Violet 19	73900	1.13	32	47	28	25
281268	PINK E 130	Red 122	73915	1.12	20	36	44	20
307786	VIOLET RL 132	Violet 23	51319	1.14	30	45	37	18
222634	BLUE A2R 131	Blue 15:1	74160	1.21	40	51	31	18
204924	BLUE B2G 131	Blue 15:3	74160	1.23	47	54	26	20
118340	GREEN GG 131	Green 7	74260	1.34	50	59	26	15
105141	BLACK PR 130	Black 7	77266	1.18	30	38	37	25
104990	BLACK N 131	Black 7	77266	1.27	42	49	31	20

Extender MS 531, the color strength of the Colanyl 100 can be adjusted. The data presented in this table is meant to provide a general indication and does not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

PRODUCT NUMBER	COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER	GLYCOL
				g/cm ³	%	%	%	%
107127	OXIDE YELLOW BV 100	Yellow 184	771740	2.18	65	72	18	10
312759	OXIDE YELLOW CR 131	Brown 24	77310	2.18	66	80	5	15
211160	OXIDE YELLOW R 132	Yellow 42	77492	1.98	66	73	9	18
269205	OXIDE RED G 130	Red 101	77491	2.17	65	71	11	18
313602	OXIDE RED B 132	Red 101	77491	2.34	72	77	8	14
107120	OXIDE BLUE COR 100	Blue 28	77346	1.95	60	67	15	18
118342	OXIDE GREEN G 131	Green 17	77288	2.56	75	80	10	10
312758	OXIDE BLACK B 130	Black 11	77499	1.90	50	62	18	20
285066	WHITE R 130	White 6	77891	2.18	70	77	4	19

3.2

COLANYL® 500

Colanyl 500 is a range of aqueous, binder-free pigment preparations that is manufactured without using alkyl phenol ethoxylated (APEO) additives. These aqueous pigment preparations are compatible with water-based and VOC-low decorative paints¹. The main application fields of the Colanyl 500 range are modern dispersion paints and renderings/plaster based on aqueous polymer dispersions.

They are also compatible with other binder systems, e.g. water-based industrial paints, but the maximum dosage level and compatibility of the binder-free Colanyl 500 has to be checked in the customer paint itself. By using Colanyl 500 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Colanyl 500 pigment preparations are miscible in all proportions with each other.

PRODUCT NUMBER	COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
				g/cm ³	%	%	%
311423	YELLOW 5GX 530	Yellow 74	11741	1.14	40	58	42
311424	YELLOW FGL 531	Yellow 97	11767	1.15	38	65	35
311426	YELLOW H3G 530	Yellow 154	11781	1.13	30	47	53
311421	YELLOW 2GXD 530	Yellow 74	11741	1.19	41	61	39
311425	YELLOW G 530	Yellow 1	11680	1.17	45	64	36
311427	YELLOW HRD 530	Yellow 83	21108	1.18	50	69	31
xxxxxx	ORANGE H5GD 500	Orange 62	11775	1.17	30	63	37
311416	RED GG 531	Orange 5	12075	1.24	45	67	33
311418	SCARLET GO 532	Red 168	59300	1.24	36	62	38
320374	RED D3GD 532	Red 254	56110	1.24	50	66	34
311417	RED HF3S 530	Red 188	12467	1.16	40	60	40
311415	RED FGRD 530	Red 112	12370	1.17	45	61	39
311414	RED FGR 531	Red 112	12370	1.20	47	70	30
311413	RED E3B 531	Violet 19	73900	1.14	30	59	41
311419	PINK E 532	Red 122	73915	1.08	20	56	44
311429	PINK E-WD 531	Red 122	73915	1.14	32	57	43
311430	VIOLET RL 532	Violet 23	51319	1.12	30	57	43
311394	BLUE A2R 531	Blue 15:1	74160	1.20	40	62	38
311395	BLUE B2G 530	Blue 15:3	74160	1.23	45	61	39
311478	GREEN GG 531	Green 7	74260	1.34	50	71	29
311383	BLACK N 530	Black 7	77266	1.28	43	63	37
311384	BLACK N 511	Black 7	77266	1.25	40	61	39

¹ As defined in EU directive 2004/42/EC Annex II, phase II. 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 (VOC-test method DIN EN ISO 17895).

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.

By adding Colanyl Extender MS 531, the color strength of Colanyl 500 can be adjusted. The data presented in this table is meant to provide a general indication and does not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card PI 2011 E
 »Colanyl 500, Hostatint 500 - For decorative paints and coatings«,
 Flyer PI 2005 E
 »Colanyl 500, Hostatint 500 - For decorative paints and coatings«

PRODUCT NUMBER	COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
				g/cm ³	%	%	%
311411	OXIDE YELLOW BV 531	Yellow 184	771740	2.22	65	80	20
312444	OXIDE YELLOW CR 531	Brown 24	77310	2.19	65	78	22
311412	OXIDE YELLOW R 532	Yellow 42	77492	2.00	64	78	22
311410	OXIDE RED G 531	Red 101	77491	2.16	65	79	21
311409	OXIDE RED B 531	Red 101	77491	2.35	70	83	17
311401	OXIDE BLUE COR 531	Blue 28	77346	1.96	62	79	21
311403	OXIDE GREEN G 531	Green 17	77288	2.59	75	87	13
311399	OXIDE BLACK B 533	Black 11	77499	1.80	53	71	29
316607	OXIDE BLACK IR 531	Green 17	77288	2.38	70	84	16
311420	WHITE R 530	White 6	77891	2.04	65	82	18
311396	EXTENDER MS 531	-	-	1.68	60	78	22

3.3 HOSTATINT™ 500

Hostatint 500 is a range of aqueous, binder-free pigment preparations that is manufactured without using alkyl phenol ethoxylated (APEO) additives. These multipurpose pigment preparations are compatible with water-based and solvent-based decorative coatings, especially low VOC decorative coatings¹. They are also compatible with some other binder systems, e.g. water-based or solvent-based industrial paints, but the maximum dosage level and com-

patibility of the binder-free Hostatint 500 has to be checked in the customer paint system itself. By using Hostatint 500 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Hostatint 500 pigment preparations are miscible in all proportions with each other. By adding Hostatint Extender MS 532 or Hostatint Extender CC 532, the color strength of

PRODUCT NUMBER	HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
				g/cm ³	%	%	%
311338	YELLOW 12G 531	Yellow 3	11710	1.18	40	63	37
311351	YELLOW 20XD 531	Yellow 74	11741	1.15	40	65	35
311335	YELLOW 40X 531	Yellow 73	11738	1.16	38	63	37
311352	YELLOW FGL 532	Yellow 97	11767	1.14	40	61	39
311332	YELLOW HR 533	Yellow 83	21108	1.09	15	57	43
311337	ORANGE HLD 533	Orange 36	11780	1.13	20	60	40
314412	SCARLET GO 531	Red 168	59300	1.24	35	61	39
311334	RED FGR 531	Red 112	12370	1.13	21	51	49
311348	RED D3GD 532	Red 254	56110	1.15	30	61	39
310267	PINK E 532	Red 122	73915	1.10	20	44	56
312443	VIOLET RL 533	Violet 23	51319	1.11	15	48	52
311331	BLUE B2G 531	Blue 15:3	74160	1.14	30	57	43
309386	GREEN GG 531	Green 7	74260	1.18	30	61	39
311437	BLACK GR 532	Black 7	77266	1.13	20	54	46

¹ As defined in EU 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.

Hostatint 500 can be adjusted. The data presented in this table is meant to provide a general indication and do not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card PI 2011 E
 »Colanyl 500, Hostatint 500 - For decorative paints and coatings«,
 Flyer PI 2005 E
 »Colanyl 500, Hostatint 500 - For decorative paints and coatings«

PRODUCT NUMBER	HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
				g/cm ³	%	%	%
309992	OXIDE YELLOW BV 531	Yellow 184	771740	2.07	65	85	15
311347	OXIDE YELLOW R 532	Yellow 42	77492	1.87	60	81	19
313197	OXIDE RED B 532	Red 101	77491	2.24	68	85	15
313609	UMBER KT 532	Mix	-	2.03	65	96	4
311340	OXIDE BLUE COR 531	Blue 28	77346	2.05	65	85	15
311343	OXIDE GREEN CO 532	Green 50	77377	2.06	65	89	11
311344	OXIDE GREEN G 532	Green 17	77288	2.16	60	79	21
311329	OXIDE BLACK B 532	Black 26	77537	2.34	70	92	8
311350	WHITE R 531	White 6	77891	2.17	70	89	11
311336	EXTENDER MS 532	-	-	1.59	55	78	22
311333	EXTENDER CC 532	-	-	1.28	30	61	39

3.4

HOSTATINT™ A 100

The Hostatint A 100 pastes are solvent-containing pigment preparations based on a carrier resin (aldehyde resin) that was developed specially for industrial paint applications. The pastes are produced within narrow tolerances of shade and color strength allowing highly consistent paint production path with manual and automatic dispensers.

The solvent and additives are carefully selected to avoid hazardous labelling or special storage requirements associated with their flammability. Hostatint A 100 shows good compatibility and can be added in the usual amounts to virtually all types of solvent-based industrial paint systems.

PRODUCT NUMBER	HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	SOLVENT CONTENT
				g/cm ³	%	%	%
222428	YELLOW A-H3G 100	Yellow 154	11781	1.23	42	65	35
222429	YELLOW A-F2G 100	Yellow 194	11785	1.19	36	59	41
222430	YELLOW A-HRD 100	Yellow 83	21108	1.16	28	52	48
222440	ORANGE A-HLD 100	Orange 36	11780	1.25	43	60	40
286008	RED A-D3GD 130	Red 254	56110	1.22	33	62	38
183729	PINK A-E 130	Red 122	73915	1.13	19	45	55
285245	RED VIOLET A-ER 130	Violet 19	73900	1.13	19	50	50
222463	VIOLET A-RL 100	Violet 23	51319	1.12	12	40	60
222464	BLUE A-BG 100	Blue 15:3	74160	1.17	24	60	40
285013	GREEN A-GNX 130	Green 7	74260	1.22	23	50	40
221649	BLACK A-N 100	Black 7	77266	1.17	21	55	45

The Colour Index data relate to the basic pigments. The data given in the table may vary slightly because these pigment preparations are standardized in respect to tinctorial strength.

LITERATURE

Pattern card PI 2008 E
 »Hostatint A 100 – Pigment preparations«
 Flyer PI 2004 E
 »Hostatint A 100 – Pigment preparations«
 Flyer PI 2007 E
 »Highly transparent pigment preparations for solvent-based paint systems – Hostatint A 100-ST«

PRODUCT NUMBER	HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	SOLVENT CONTENT
				g/cm ³	%	%	%
222426	OXIDE YELLOW A-BV 100	Yellow 184	771740	2.27	64	80	20
222427	OXIDE YELLOW A-CR 100	Brown 24	77310	2.11	64	82	18
222425	OXIDE YELLOW A-R 100	Yellow 42	77492	1.68	50	68	32
222431	OXIDE RED A-B 100	Red 101	77491	2.06	62	78	22
225570	TRANSOXIDE YELLOW A-2R 100	Yellow 42	77492	1.48	39	66	34
225444	TRANSOXIDE RED A-G 100	Red 101	77491	1.59	40	67	33
222465	WHITE A-R 100	White 6	77891	1.90	59	79	21
279376	YELLOW A-N4G 100-ST	Yellow 150	12764	1.16	15	38	62
289404	RED A-P2Y 100-ST	Red 179	71130	1.15	15	30	70
287516	PINK A-EB 100-ST	Red 122	73915	1.13	7	27	73
290247	BLUE A-BTR 100-ST	Blue 15:1	74160	1.12	7	41	59
275536	BLUE A-BTG 100-ST	Blue 15:4	74160	1.15	15	36	64
323291	GREEN A-GMB 100-ST	Mixture	n. a.	1.15	15	37	63
289518	BLACK A-NB 100-ST	Black 7	77266	1.20	25	45	55
272060	BLACK A-NY 100-ST	Black 7	77266	1.16	15	30	70

3.5 HOSTATINT™ UV

Hostatint UV is a range of pigment preparations, which do not contain water or solvents. They are designed to work best in 100% UV systems, but are also suitable for solvent-borne UV systems. Both, the binder and the diluent (HDDA) contained in the preparations, crosslink into the coating film under UV curing conditions.

LITERATURE

Pattern card PI 2025 E
 »Colorants for radiation curing - Hostatint UV pigment preparations«

PRODUCT NUMBER	HOSTATINT UV	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	BINDER
				%	%
279963	YELLOW H3G	Yellow 154	11781	42	24
286005	RED D3GD	Red 254	56110	35	29
290220	RED P2GL	Red 179	71130	22	32
289501	BLUE BG	Blue 15:3	74160	24	25
279962	WHITE R	White 6	77891	62	19
293161	BLACK N 30	Black 7	77266	21	40
289392	OXIDE YELLOW R	Yellow 42	77492	43	20

3.6

HOSTATINT™ SA

The Hostatint SA pastes are solvent-containing pigment preparations based on a carrier resin (short oil alkyd resin) that was developed specially for wood coatings applications. The pastes are produced within narrow tolerances of shade, colour strength and with a rheology engineered to allow a highly consistent wood stain or oil production path with manual and automatic dispensers.

The solvent and additives are carefully selected to avoid hazardous labelling or special storage requirements associated with their flammability. Hostatint A 100 shows good compatibility and can be added in the usual amounts to virtually all types of solvent-based wood treatments.

PRODUCT NUMBER	HOSTATINT SA	COLOUR INDEX PIGMENT	COLOUR INDEX NO. ¹	PIGMENT	LIGHT FASTNESS ²
				%	%
321112	BLACK N	Black 7	77266	30	8
321123	OXIDE YELLOW R	Yellow 42	77492	55	8
321125	TRANSOXIDE YELLOW 2R	Yellow 42	77492	36	8
321124	TRANSOXIDE RED B	Red 101	77491	40	8

¹ of base pigment ² 1% in full shade dispersion paint

3.7 HOSTAFINE®1

Hostafine is a range of aqueous, binder-free pigment preparations based on non-ionic wettig agents and is manufactured without using alkyl phenol ethoxylated (APEO) additives. They are ultra fine pigment preparations with 95% of the pigment particle size below 0.5 µm and with no pigment particle size above 1 µm. These preparations show high tinting strength with high transparency and brilliance.

Viscosity is low and stability against settling and skinning is excellent. Hostafine pigment preparations are especially suitable for water-based transparent wood stains. They can also be used for other applications such as aqueous emulsion paints, glass paints, water-colors, latex and water resistant inks, inks for fiber-tip finliner and roller-tip pens.

PRODUCT NUMBER	HOSTAFINE	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	GLYCOL
				g/cm ³	%	%
307808	YELLOW GR 31	Yellow 13	21100	1.13	40	10
307803	YELLOW HR 31	Yellow 83	11741	1.13	35	15
307791	RED HF3S 30	Red 188	12467	1.14	40	10
307796	RED FGR 30	Red 112	12370	1.15	45	10
307792	RED P2GL 30	Red 179	71130	1.12	25	10
307807	RED F5RK 30	Red 170	12475	1.11	35	10
307758	RUBINE F6B 31	Red 184	12467	1.11	40	10
307790	MAGENTA E 30	Red 122	73915	1.09	20	10
307795	VIOLET RL 30	Violet 23	51319	1.12	30	10
307773	BLUE B2G 30	Blue 15:3	74160	1.18	40	10
307759	GREEN GN 30	Green 7	74260	1.28	40	10
307806	BLACK T 31	Black 7	77266	1.18	30	10
219508	BLACK TS 30	Black 7	77266	1.22	33	-

A final evaluation in the customer system is necessary. The data presented in this table is meant to provide a general indication and do not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card DP 7075 E
 »Hostafine pigment preparations – Woodstain Shade Library«
 Flyer PI 2026 E
 »Precious Wood Made Easy – Hostafine® pigment preparations«

PRODUCT NUMBER	HOSTAFINE	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	GLYCOL
				g/cm ³	%	%
311620	TRANSOXIDE YELLOW R 33¹	Yellow 42	77492	1.37	35	–
311619	TRANSOXIDE RED B 33¹	Red 101	77491	1.37	35	–

¹ Hostafine Transoxide Yellow R 33 and Hostafine Transoxide Red B 33 are multipurpose pigment preparations, similar to Hostatint 500, and compatible with water-based and solvent-based low-VOC decorative coatings as defined EU 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.

3.8

HOSTANOL® HW 30

Hostanol HW 30 is a range of solid pigment preparations based on polyvinyl butyral as carrier material. It is suitable for use in alcohol containing systems, esters and glycols can be used as additional solvents. Main fields of application are highly transparent solvent-based wood stains and marker inks. Furthermore, they can be used in gravure and flexographic printing inks based on nitrocellulose and for coating aluminum foils.

LITERATURE

Pattern card PI 2012 E
 »Hostanol HW 30 – Pigment preparations«

PRODUCT NUMBER	HOSTANOL HW 30	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	LIGHT FASTNESS	PARTICLE SIZE DISTRIBUTION
				%		d ₅₀ (nm)
154345	YELLOW HR	Yellow 83	21108	50	6-7	≤ 75
154350	RED HF2B	Red 208	12514	50	6-7	≤ 75
267153	RED F5RK	Red 170	12475	50	6	< 250
154340	BLUE B2G	Blue 15:3	74160	50	8	< 100
154342	BROWN HFR	Brown 25	12510	50	8	≤ 75
154351	BLACK R	Black 7	77266	40	8	≤ 75
107577	WHITE T	White 6	77891	70	8	< 250

4 DYES

4.1 SAVINYL® DYES

Savinyl powder dyes are solvent soluble metal complex dyes, with excellent solubilities in polar organic solvents like alcohols, ketones and glycol ethers, as well as good overall fastness properties. They are suitable for coloration of writing inks, wood stains, leather finish, flexographic and gravure inks and paints based on polar solvents.

PRODUCT NUMBER	SAVINYL	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		
			OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	
213213	YELLOW 2GLS 01	S.Y. 79					●					○		
103319	YELLOW RLS	S.Y. 83:1					●					○		
103328	YELLOW RLSN	S.Y. 8 3					○*					○		
103324	YELLOW 2RLS	S.Y. 62					●					○		
103327	ORANGE RLS	S. O. 41					●					○		
103321	ORANGE RLSE	S.O. 62					○*					○		
103331	FIRE RED 3GLS	S.R. 124					○*					○		
103337	RED 3BLS	S.R. 91					●					○		
103526	PINK 6BLS	S.R. 127					○*					○		
104390	BLUE RS	S.B. 45					○*					○		
103330	BLUE GLS	S.B. 44					●					○		
115318	GREEN 2GLS 01	Mixture					○*					○		
103322	BROWN GLS	Mixture					●					○		
299479	BLACK RLSN 01	Mixture					●					○		

● recommended

○ limited suitability

* limited fastness to overpainting

5 OVERVIEW ARRANGED BY COLOUR INDEX DATA (GENERIC NAME)

5.1 YELLOW

The following overview lists our pigments, pigment preparations and dyes already published in the Colour Index, arranged by their generic name. If only the generic name but not the C.I. No. is given, the product was published without details of its constitution. We would point out that identical generic names simply indicate identical chemical composition.

The application properties of colorants are however influenced to a greater or lesser extent not only by their chemical composition but also by numerous other factors such as particle size distribution, crystallinity, surface treatment, impurities etc. For this reason products having identical compositions and identical generic names may differ completely in their application properties.

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT YELLOW 1	11680	HANSA YELLOW G 02	10	COLANYL YELLOW G 132	14
				COLANYL YELLOW G 530	16
PIGMENT YELLOW 3	11710	HANSA YELLOW 10G HANSA YELLOW 10G 41 GRAN.	10	COLANYL YELLOW 10G 132	14
			10	HOSTATINT YELLOW 12G 531	18
PIGMENT YELLOW 12	21090	PERMANENT YELLOW DHG	9		
PIGMENT YELLOW 13	21100	PERMANENT YELLOW GR	9	HOSTAFINE YELLOW GR 31	24
PIGMENT YELLOW 17	21105	PERMANENT YELLOW GG 02	9		
PIGMENT YELLOW 42	77492			COLANYL OXIDE YELLOW R 132	15
				COLANYL OXIDE OLIVE GS 130	15
				COLANYL OXIDE YELLOW R 532	17
				HOSTAFINE TRANSOXIDE YELLOW R 33	25
				HOSTATINT OXIDE YELLOW A-R 100	21
				HOSTATINT UV OXIDE YELLOW R	23
				HOSTATINT TRANSOXIDE YELLOW A-2R 100	21
HOSTATINT OXIDE YELLOW R 532	19				
PIGMENT YELLOW 73	11738	HANSA BRILLIANT YELLOW 4GX	10	HOSTATINT YELLOW 4GX 531	18
PIGMENT YELLOW 74	11741	HANSA BRILLIANT YELLOW 5GX HANSA BRILLIANT YELLOW 2GX 70 HANSA BRILLIANT YELLOW 2GX 70-S HANSA BRILLIANT YELLOW 2GX 72-S	10	COLANYL YELLOW 5GX 131	14
			10	COLANYL YELLOW 2GXD 130	14
			10	COLANYL YELLOW 5GX 530	16
			10	COLANYL YELLOW 2GXD 530	16
				HOSTATINT YELLOW 2GXD 531	18

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT YELLOW 83	21108	NOVOPERM YELLOW HR	6	COLANYL YELLOW HR 131	14
		NOVOPERM YELLOW HR 02	7	COLANYL YELLOW HRD 132	14
		NOVOPERM YELLOW HR 70	6	COLANYL YELLOW HRD 530	16
		NOVOPERM YELLOW HR 72	6	HOSTAFINE YELLOW HR 31	24
				HOSTATINT YELLOW HR 533	18
				HOSTATINT YELLOW A-HRD 100	20
				HOSTANOL HW 30 YELLOW HR	26
PIGMENT YELLOW 97	11767	NOVOPERM YELLOW FGL	6	COLANYL YELLOW FGL 133	14
				COLANYL YELLOW FGL 531	16
				HOSTATINT YELLOW FGL 532	18
PIGMENT YELLOW 120	11783	NOVOPERM YELLOW H2G	6		
PIGMENT YELLOW 139	56298	GRAPHOTOL YELLOW H2R	12		
		NOVOPERM YELLOW M2R 70	6		
		NOVOPERM YELLOW P-M3R	7		
PIGMENT YELLOW 150	12764			HOSTATINT YELLOW A-N4G 100-ST	21
PIGMENT YELLOW 151	13980	HOSTAPERM YELLOW H4G	4		
		HOSTAPERM YELLOW H4G 70	4		
PIGMENT YELLOW 154	11781	HOSTAPERM YELLOW H3G	4	COLANYL YELLOW H3G 131	14
		HOSTAPERM YELLOW H3G 02	4	HOSTATINT YELLOW A-H3G 100	20
				COLANYL YELLOW H3G 530	16
				HOSTATINT UV YELLOW H3G	22
PIGMENT YELLOW 155	200310	NOVOPERM YELLOW 4G 01	7		
		NOVOPERM YELLOW 5GD 71	6		
PIGMENT YELLOW 175	11784	HOSTAPERM YELLOW H6G	4		
PIGMENT YELLOW 180	21290	PV FAST YELLOW HG	11		
PIGMENT YELLOW 181	11777	PV FAST YELLOW H3R	11		
PIGMENT YELLOW 184	771740	HOSTAPERM OXIDE YELLOW BV 01	4	COLANYL OXIDE YELLOW BV 100	15
		HOSTAPERM OXIDE YELLOW BV 02	4	COLANYL OXIDE YELLOW BV 531	17
				HOSTATINT OXIDE YELLOW BV 531	19
				HOSTATINT OXIDE YELLOW A-BV 100	21
PIGMENT YELLOW 191	18795	PV FAST YELLOW HGR	11		
PIGMENT YELLOW 194	11785	NOVOPERM YELLOW F2G	6	HOSTATINT YELLOW A-F2G 100	20
		NOVOPERM YELLOW F2G 02	6		

5.2 ORANGE

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT ORANGE 5	12075	HANSA RED GG	10	COLANYL RED GG 131	14
				COLANYL RED GG 531	16
PIGMENT ORANGE 13	21110			COLANYL ORANGE G 131	14
PIGMENT ORANGE 34	21115	PERMANENT ORANGE RL 70	8		
PIGMENT ORANGE 36	11780	NOVOPERM ORANGE HL NOVOPERM ORANGE HL 70 NOVOPERM ORANGE HL 71	6	HOSTATINT ORANGE HLD 533 HOSTATINT ORANGE A-HLD 100	18
			6		20
			6		
PIGMENT ORANGE 38	12367	NOVOPERM RED HFG	7		
PIGMENT ORANGE 43	71105	HOSTAPERM ORANGE GR	4		
PIGMENT ORANGE 62	11775	NOVOPERM ORANGE H5G 70	6	COLANYL ORANGE H5GD 500	16
PIGMENT ORANGE 72	-	PV FAST ORANGE H4GL 01	11		

5.3 RED

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT RED 3	12120	HANSA SCARLET RNC HANSA RED 3B	10	COLANYL SCARLET RNX 130	14
			10		
PIGMENT RED 9	12460			COLANYL RED FRLL 131	14
PIGMENT RED 12	12385	PERMANENT BORDEAUX FRR	8		
PIGMENT RED 48:3	15865:3	GRAPHTOL FIRE RED 3RLP	12		
PIGMENT RED 53:1	15585:1	GRAPHTOL RED LC PERMANENT LAKE RED LCLL	12		
			9		

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT RED 57:1	15850:1	GRAPHTOL RUBINE L4B	12		
PIGMENT RED 101	77491			COLANYL OXIDE RED B 132	15
				COLANYL OXIDE RED G 130	15
				COLANYL OXIDE RED B 531	17
				COLANYL OXIDE RED G 531	17
				HOSTAFINE TRANSOXIDE RED B 33	25
				HOSTATINT OXIDE RED B 532	19
				HOSTATINT OXIDE RED A-B 100	21
				HOSTATINT TRANSOXIDE RED A-G 100	21
PIGMENT RED 112	12370	PERMANENT RED FGR	8	COLANYL RED FGRG 130	14
		PERMANENT RED FGR 02	8	COLANYL RED FGR 131	14
		PERMANENT RED FGR 70	8	COLANYL RED FGR 531	16
				COLANYL RED FGRD 530	16
				HOSTAFINE RED FGR 30	24
				HOSTATINT RED FGR 531	18
PIGMENT RED 122	73915	HOSTAPERM PINK E	5	COLANYL PINK E 130	14
		HOSTAPERM PINK E-WD 01	5	COLANYL PINK E 532	16
		HOSTAPERM PINK EB TRANSP.	5	COLANYL PINK E-WD 531	16
		HOSTAPERM PINK E-WD	5	HOSTAFINE MAGENTA E 30	24
				HOSTATINT PINK E 532	18
				HOSTATINT PINK A-E 130	20
				HOSTATINT PINK A-EB 100-ST	21
PIGMENT RED 149	71137	PV FAST RED B	11		
PIGMENT RED 168	59300	HOSTAPERM SCARLET GO	4	COLANYL SCARLET GO 131	14
				COLANYL SCARLET GO 532	16
				HOSTATINT SCARLET GO 531	18
PIGMENT RED 170	12475	NOVOPERM RED F2RK 70	6	HOSTAFINE RED F5RK 30	24
		NOVOPERM RED F3RK 70	6	HOSTANOL HW 30 RED F5RK	26
		NOVOPERM RED F5RK	6		
PIGMENT RED 179	71130	HOSTAPERM RED P2GL-WD	4	HOSTAFINE RED P2GL 30	24
				HOSTATINT RED A-P2Y 100-ST	21
				HOSTATINT UV RED P2GL	22
PIGMENT RED 184	12467			HOSTAFINE RUBINE F6B 31	24
PIGMENT RED 185	12516	NOVOPERM CARMINE HF4C	7		
PIGMENT RED 188	12467	NOVOPERM RED HF3S	6	COLANYL RED HF3S 530	16
		NOVOPERM RED HF3S 70	6	HOSTAFINE RED HF3S 30	24
PIGMENT RED 208	12514			HOSTANOL HW 30 RED HF2B	26
PIGMENT RED 254	56110	HOSTAPERM RED D3G 70-CN	4	COLANYL RED D3GD 532	16
		HOSTAPERM RED D2G 71	4	HOSTATINT RED D3GD 532	18
		HOSTAPERM RED D2G 72	4	HOSTATINT RED A-D3GD 130	20
				HOSTATINT UV RED D3GD	22

5.4 VIOLET

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT VIOLET 19	73900	HOSTAPERM RED E2B 70	4	COLANYL-RED E3B 130	14
		HOSTAPERM RED E3B	4	COLANYL RED E3B 531	16
		HOSTAPERM RED E5B 02	4	HOSTATINT RED VIOLET A-ER 130	20
		HOSTAPERM RED VIOLET ER 02	5		
PIGMENT VIOLET 23	51319	HOSTAPERM VIOLET BL 01	5	COLANYL VIOLET RL 132	14
		HOSTAPERM VIOLET RL SPECIAL 01	5	COLANYL VIOLET RL 532	16
				HOSTAFINE VIOLET RL 30	24
				HOSTATINT VIOLET RL 533	18
				HOSTATINT VIOLET A-RL 100	20
PIGMENT VIOLET 32	12517	NOVOPERM BORDEAUX HF3R	7		

5.5 BLUE

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT BLUE 15:1	74160	HOSTAPERM BLUE A4R	5	COLANYL BLUE A2R 131	14
		HOSTAPERM BLUE BT-728-D	5	COLANYL BLUE A2R 531	16
		HOSTAPERM BLUE BT-729-D	5	HOSTATINT BLUE A-BTR 100-ST	21
		PV FAST BLUE A2R	11		
PIGMENT BLUE 15:2	74160	HOSTAPERM BLUE BT-627-D	5		
PIGMENT BLUE 15:3	74160	HOSTAPERM BLUE B2G 03	5	COLANYL BLUE B2G 131	14
		PV FAST BLUE BG	11	COLANYL BLUE B2G 530	16
				HOSTAFINE BLUE B2G 30	24
				HOSTATINT BLUE B2G 531	18
				HOSTATINT BLUE A-BG 100	20
				HOSTATINT UV BLUE BG	22
				HOSTANOL HW 30 BLUE B2G	26
PIGMENT BLUE 15:4	74160	HOSTAPERM BLUE BT-617-D	5	HOSTATINT BLUE A-BTG 100-ST	21
PIGMENT BLUE 28	77346			COLANYL OXIDE BLUE COR 100	15
				COLANYL OXIDE BLUE COR 531	17
				HOSTATINT OXIDE BLUE COR 531	19

5.6 GREEN

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT GREEN 7	74260	HOSTAPERM GREEN GNX	5	COLANYL GREEN GG 131	14
		HOSTAPERM GREEN GNX 01	5	COLANYL GREEN GG 531	16
		HOSTAPERM GREEN GNX 02	5	HOSTAFINE GREEN GN 30	24
				HOSTATINT GREEN GG 531	18
				HOSTATINT GREEN A-GNX 130	20
PIGMENT GREEN 17	77288			COLANYL OXIDE GREEN G 131	15
				COLANYL OXIDE GREEN G 531	17
				HOSTATINT OXIDE GREEN G 532	19
				COLANYL OXIDE BLACK IR 531	17
PIGMENT GREEN 50	77377			HOSTATINT OXIDE GREEN CO 532	19

5.7 OTHERS

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT BROWN 24	77310			COLANYL OXIDE YELLOW CR 531	17
				HOSTATINT OXIDE YELLOW A-CR 100	21
PIGMENT BROWN 25	12510	HOSTAPERM BROWN HFR 01	5	HOSTANOL HW 30 BROWN HFR	26
PIGMENT BLACK 7	77266			COLANYL BLACK PR 130	14
				COLANYL BLACK N 131	14
				COLANYL BLACK N 530	16
				COLANYL BLACK N 511	16
				HOSTAFINE BLACK T 31	24
				HOSTAFINE BLACK TS 30	24
				HOSTATINT BLACK GR 532	18
				HOSTATINT BLACK A-N 100	20
				HOSTATINT BLACK A-NB 100-ST	21
				HOSTATINT BLACK A-NY 100-ST	21
				HOSTATINT UV BLACK N 30	23
				HOSTANOL HW 30 BLACK R	26
PIGMENT BLACK 11	77499			COLANYL OXIDE OLIVE GS 130	15
				COLANYL OXIDE BLACK B 130	15
				COLANYL OXIDE BLACK B 533	17
PIGMENT BLACK 26	77537			HOSTATINT OXIDE BLACK B 532	19
PIGMENT WHITE 6	77891			COLANYL WHITE R 130	15
				COLANYL WHITE R 530	17
				HOSTATINT WHITE R 531	19
				HOSTATINT WHITE A-R 100	21
				HOSTATINT UV WHITE R	23
				HOSTANOL HW 30 WHITE T	26

5.8 DYES

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES DYES	PAGE
SOLVENT YELLOW 62	-	SAVINYL YELLOW 2RLS	27
SOLVENT YELLOW 79	-	SAVINYL YELLOW 2GLS 01	27
SOLVENT YELLOW 83	-	SAVINYL YELLOW RLSN	27
SOLVENT YELLOW 83:1	-	SAVINYL YELLOW RLS	27
SOLVENT ORANGE 41	-	SAVINYL ORANGE RLS	27
SOLVENT ORANGE 62	12714	SAVINYL ORANGE RLSE	27
SOLVENT RED 91	-	SAVINYL RED 3BLS	27
SOLVENT RED 124	-	SAVINYL FIRE RED 3GLS	27
SOLVENT RED 127	-	SAVINYL PINK 6BLS	27
SOLVENT BLUE 44	-	SAVINYL BLUE GLS	27
SOLVENT BLUE 45	-	SAVINYL BLUE RS	27

HEUBACH GROUP

Marketing And Sales Coatings
Phone +49 (0) 6196 757 7981 (Germany)

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

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