COLORANTS FOR THE PAINT INDUSTRY

PIGMENTS, PIGMENT PREPARATIONS & DYES.

SUDARSHAN

Outshine. Outdo.

PIGMENTS, PIGMENT PREPARATIONS AND DYES FROM SUDARSHAN

Sudarshan 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:

COA 1013 EN
Pigments - Automotive, decorative and industrial paints

COA 1003 EN
Pigments for automotive paints

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 Sudarshan with the following Colour Index numbers are such diarylide pigments:

Pigment Yellow 12
Pigment Yellow 13
Pigment Yellow 14
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).

PRODUCT RANGE, DESCRIPTIONS AND PROPERTIES

1
STANDARD RANGES OF PIGMENTS

1.1
HOSTAPERM® 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.

HOSTAPERM	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
OXIDE YELLOW BV 01	P. Y. 184	■	■	■	■	■	●	●	■	■	●	●
OXIDE YELLOW BV 02	P. Y. 184	■	■	■	■	■	●	●	■	■	●	●
YELLOW H6G	P. Y. 175	●	●		●	■		●		●	●	
YELLOW H4G	P. Y. 151	●	■	■		■		○		■	●	
YELLOW H4G 70	P. Y. 151	●	■	■		■		○		■	●	
YELLOW H3G	P. Y. 154	■	●	■	○	■	○	●		●	■	■
YELLOW H3G 02	P. Y. 154	●	●			■	■〰				■	■〰
RED D3G 70-CN	P. R. 254	●	●		■	■	■	●	●	●	●	●
RED E2B 70	P. V. 19	■	●	■	○	●	○	●	○			
RED E3B	P. V. 19	●	●	■	■	■	●	●	○	●	●	●
RED E5B 02	P. V. 19	●	●	■	■	■	●	●	○	●	●	●
PINK E	P. R. 122	■	■	■	■	■	●	●	○	●	●	●
PINK E-WD	P. R. 122					○	●					■
PINK E-WD 01	P. R. 122					●	■〰				●	■〰
PINK EB TRANSP.	P. R. 122	■	■	■	○	●	○	●	○			
RED VIOLET ER 02	P. V. 19	■	■	■	■	■	●	●	○	●	●	●

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

1.1
HOSTAPERM® PIGMENTS

HOSTAPERM	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
VIOLET BL 01	P. V. 23	■	■	■	■	■	●	●	●	●	●	●
VIOLET RL SPEC. 01	P. V. 23	■	■	■	■	■	●	●	●	●	●	●
BLUE A4R	P. B. 15:1	●	●	■	■	■	●	●	●	■	●	●
BLUE BT-728-D	P. B. 15:1	■	■	■	■							
BLUE BT-729-D	P. B. 15:1	■	■	■	■							
BLUE BT-627-D	P. B. 15:2	■	■	■	■	●	●	●	●			
BLUE B2G 03	P. B. 15:3	■	■	■	○	■〰	■	●	■	■	■〰	■
BLUE BT-617-D	P. B. 15:4	■	■	■	■	●	●	●	●			
GREEN GNX	P. G. 7	■	■	■	■	■	●	●	●	●	●	●
GREEN GNX 02	P. G. 7	■	■	■	■	■	●	●	●	●	●	●
BROWN HFR 01	P. BR. 25	■	■	■	■	●	●	●	○	●		

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

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.

NOVOPERM	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
YELLOW FGL	P. Y. 97					●	●	●		○	■	■
YELLOW F2G	P. Y. 194					■	●	●		■	●	●
YELLOW 5GD 71	P. Y. 155	○	●	■	■	■	■	●		■	●	●
YELLOW H2G	P. Y. 120		●			■	●	●		■		
YELLOW HR	P. Y. 83					●	●	●		●	●	
YELLOW HR 70	P. Y. 83	○	●	●	●	■	●	●		■	●	●
YELLOW HR 72	P. Y. 83		●	●		■〰	●	●			■〰	●
YELLOW M2R 70	P. Y. 139	●	●	■	■	■	○	●		■		
ORANGE H5G 70	P. O. 62	○	●	●	○	■	●	●		●	●	●
ORANGE HL	P. O. 36					●	●	●		●	●	●
ORANGE HL 70	P. O. 36	■	■	■	■	■	●	●		■	●	●
ORANGE HL 71	P. O. 36	■	■	○	■	■	■〰	●		○	■	■〰
RED HF3S	P. R. 188					●	●	●		●	■	■
RED HF3S 70	P. R. 188	●	●	■	○	■	●	●	○	●	●	●
RED F2RK 70	P. R. 170	●	●	●	●	●	●	●		●		
RED F3RK 70	P. R. 170	○	●		●	■	●	●		■		
RED F5RK	P. R. 170					■	●	●		■		

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

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.

PERMANENT	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
ORANGE RL 70	P. O. 34					■	●	○		■		
RED FGR	P. R. 112					●	●	○			■	●
RED FGR 02	P. R. 112					●	●	○			■	●
RED FGR 70	P. R. 112					●	●	○			■	
BORDEAUX FRR	P. R. 12					○	○	○			■	

■ highly recommended ● recommended ○ limited suitability

1.4
HANSA® / DALAMAR / SUDACOLOR™ PIGMENTS

1.4.1
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.

HANSA	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
YELLOW G 02	P. Y. 1					○	○	○			■	●
YELLOW 10G	P. Y. 3					○	○	○			■	●
YELLOW 10G 41 GRAN.	P. Y. 3					○	○	○			■	●
BRILLIANT YELLOW 5GX	P. Y. 74					○	○	○			■	●
BRILLIANT YELLOW 4GX	P. Y. 73					○	○	○			■	●
BRILLIANT YELLOW 2GX 70	P. Y. 74					○	○	○			■	■
BRILLIANT YELLOW 2GX 70-S	P. Y. 74					○	○	○			■	■
BRILLIANT YELLOW 2GX 72-S	P. Y. 74					○	○				○	■〰
RED GG	P. O. 5					○	○				■	○
SCARLET RNC	P. R. 3					●		●			●	
RED 3B	P. R. 3					●		●			●	

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

1.4.2
DALAMAR PIGMENTS

The Dalamar pigments are bright, reddish PY 65 type with good fastness to light and weathering for air-drying paints. Not suitable for stoving enamels because of the high risk of blooming.

DALAMAR	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
YELLOW YT-805-D	P.Y. 65					○					■	■

1.4.3
SUDACOLOR™ PIGMENTS

The Sudacolor grades, classical Azo pigments offer good strength and dispersibility combined with good rheological properties. However, the fastness to over-painting and to non-aliphatic solvents is limited. In addition, they bloom heavily in baking systems and have poor heat stability. This profile leads to extensive use in decorative paints.

SUDACOLOR	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
YELLOW G	P.Y. 1										■	■
YELLOW 118	P.Y. 65					○					■	■
YELLOW 119C	P.Y. 65					○					■	■
RED 401	P.R. 4										■	■
RED 417	P.R. 3										■	■

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

1.5
SUDAPERM™ PIGMENTS

The Sudaperm range of high performance pigments deliver excellent thermal stability, weather resistance and light fastness making them suitable for high end applications including automotive, industrial, outdoor-use applications.

SUDAPERM	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
YELLOW 3032C	P.Y. 138		○	○	○	■	■	■		■	■	■
YELLOW 3030C	P.Y. 138					■	■	●				■
YELLOW 2903	P.Y. 151	○	●	●		■		○		■	■	
YELLOW 2906	P.Y. 154	○	■	■	■	■	■	■		■	■	■
YELLOW 2938C	P.Y. 139	○	●	■				■		■		
YELLOW 2937C	P.Y. 139	○	●	■		■		■		■		
YELLOW 2935	P.Y. 139	○	●	■		■		■		■		
YELLOW 2929C	P.Y. 110	■	■	■	■	■	■	■			○	■
YELLOW 2928C	P.Y. 110										■	■
YELLOW 2925C	P.Y. 110	○	■	■	■		■	■	○	■	○	●
ORANGE 2915C	P.O. 36	○	■	■	■	■	■	■		■		■
RED 2963C	P.R. 170		○	●	●	●	●	●		■	■	●
RED 2967C	P.R. 170		○	●	●	●	●	●		■	●	●
RED 2951C	P.R. 264	■	■	■		■	■	■	○	■		○
RED 2953C	P.R. 264	■	■	■	■	■	■	■	○	■	■	○
RED 2988C	P.V. 19	●	●	■	■	■	■	■	●	■	■	■
RED 2987	P.V. 19	○	●	■	■	■	■	■	■	■	■	■
PINK 2998	P.R. 122										■	■
PINK 3000C	P.R. 122	■	■	■	■	■	■	■	■	■	■	■
RED VIOLET 2995	P.V. 19	■	■	■	■	■	■	■	■	■	■	■
VIOLET 2940C	P.V. 23	●	●	■	■	■	■	■	■	●	■	■
VIOLET 2941C	P.V. 23	●	●	■	■	■	■	■	■	●	■	■

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

1.6
SUDAFAST™ PIGMENTS

The Sudafast range is a high-quality medium performance organic pigments, suitable for a variety of colouration requirements. Known for their excellent color strength, light and weather fastness and high chemical resistance.

SUDAFAST	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
YELLOW 130C	P.Y. 74					●					■	■
YELLOW 127	P.Y. 74											■
YELLOW 117	P.Y. 74					○					■	■
YELLOW 128C	P.Y. 74										■	■
YELLOW 134	P.Y. 83					●	●	●		■	■	■
RED 341	P.R. 112											■
RED 336	P.R. 112										■	■
RED 331	P.R. 112										■	■
BLUE 2662	P.B. 15:1		○			■	●		●		■	■
BLUE 2764	P.B. 15:1									●		
BLUE 2773	P.B. 15:2	○	○	○	○	■	■	■	■		●	●
BLUE 2778C	P.B. 15:3										■	■
BLUE 2785	P.B. 15:3										■	■
BLUE 2784	P.B. 15:3		○			■			■			■
BLUE 2789	P.B. 15:3									●	■	
BLUE 2796	P.B. 15:4	●	●	●	●	■	■	■	■	○	■	■
GREEN 2727C	P.G. 7	○	●	●	●	■	■	■	■	■	■	■
GREEN 2729C	P.G. 7								●	●	■	■

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

1.7
MONOLITE® / MONASTRAL® PIGMENTS

1.7.1
MONOLITE®

The MONOLITE®/MONASTRAL® portfolio comprises a wide range of organic pigments for coating systems with excellent recoatability as well as excellent solvent, weather, and light fastness.

MONOLITE	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
RED 325401	P.R. 254	●	■		■	■	■	■	●	●	●	●
RED 325402	P.R. 254	●	■		■	■	■	■	●	●	●	●
BLUE 3R-H	P.B. 60	■	■	■		■						
BLUE 3RX-H	P.B. 60	■	■	■		■						
BLUE CSN-N	P. B.15:1	●	●	●		■			■		■	■
BLUE 515303	P. B.15:3	●	●	●		■			■		■	■
GREEN 600734	P.G. 7	●	●	●	●	■	●	●	■		■	■

1.7.2
MONASTRAL® PIGMENTS

MONASTRAL	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
GREEN 6Y-C	P.G. 36	■	■	●	●	■	●	●	■	●	■	■

■〰 highly recommended & dissolver dispersible ■ highly recommended ● recommended ○ limited suitability

1.8
HEUCODUR® /SUDATHERM™ VANADUR® PIGMENTS

1.8.1
HEUCODUR® & SUDATHERM™ PIGMENTS

Complex Inorganic Colored Pigments (CICP), also known as Mixed Metal Oxides, are synthetic crystalline metal oxides composed of two or more different metals. and thus belong to the most stable class of pigments developed.

They satisfy the highest demands for heat stability and chemical inertness as well as weather and light fastness. Our product range includes Nickel and Chrome Rutiles, Cobalt Blue and Green Spinels, Black Spinels as well as Hematite Brown. Designed to deliver excellent performance in all kind of coating applications.

PRODUCT NAME AND CODE	FULL TONE	REDUCTION	CI NAME	MOLECULAR FORMULA	OIL ABSORPTION (G/100G)	HEAT RESISTANCE (˚C)"
HEUCODUR® YELLOW 152 (C)			P.Y. 53	$(Ni,Sb,Ti)O_2$	typ. 16	600
HEUCODUR® YELLOW 156 (C)			P.Y. 53	$(Ni,Sb,Ti)O_2$	typ. 15	600
HEUCODUR® YELLOW 8G (C)			P.Y. 53	$(Ni,Sb,Ti)O_2$	typ. 15	600
HEUCODUR® YELLOW 9082 (C)			P.Y. 53	$(Ni,Sb,Ti)O_2$	typ. 14	600
HEUCODUR® YELLOW G 9116 (C)			P.Y. 53	$(Ni,Sb,Ti)O_2$	typ. 20	600
HEUCODUR® YELLOW 3R (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 20	600
HEUCODUR® YELLOW 253 (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 18	600
HEUCODUR® YELLOW 252 (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 19	600
HEUCODUR® YELLOW 9239 (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 21	600
HEUCODUR® YELLOW 5R (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 18	600
HEUCODUR® YELLOW 6R (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 16	600
HEUCODUR® YELLOW 2570 (C)			P.Br. 24	$(Cr,Sb,Ti)O_2$	typ. 20	600
HEUCODUR® YELLOW 2590 (C)			P.Br. 24	$Cu(CrFe)O_4$	typ. 18	600
HEUCODUR® BLUE 550			P.B. 28	$CoAl_2O_4$	typ. 28	600
HEUCODUR® BLUE 552			P.B. 28	$CoAl_2O_4$	typ. 27	600
HEUCODUR® BLUE 2R			P.B. 28	$CoAl_2O_4$	typ. 39	600
SUDATHERM BLUE 6421C			P.B. 28	$CoAl_2O_4$	typ. 28	600
HEUCODUR® BLUE 5-100			P.B. 36	$Co(AlCr)_2O_4$	typ. 16	600
HEUCODUR® BLUE 4G			P.B. 36	$Co(AlCr)_2O_4$	typ. 14	600
HEUCODUR® GREEN 5G (C)			P.G. 50	$Co(NiZn)(TiAl)O_4$	typ. 31	600
SUDATERM GREEN 6451C			P.G. 50	$Co(NiZn)(TiAl)O_4$	typ. 32	600

1.8.1
HEUCODUR® & SUDATHERM™ PIGMENTS

PRODUCT NAME AND CODE	FULL TONE	REDUCTION	CI NAME	MOLECULAR FORMULA	OIL ABSORPTION (G/100G)	HEAT RESISTANCE (˚C)"
SUDATHERM TAN 6416C			PY 119	ZnFe2O4	typ. 26	260
HEUCODUR® BROWN 869 (C)			P.Br. 29	$(FeCr)O_3$	typ. 23	600
SUDATHERM BROWN 6411C			P.Y. 164	(Ti,Mn,Sb)O2	typ. 23	600
HEUCODUR® IR BLACK 945			P.Br. 29	$(FeCr)O_3$	typ. 18	600
HEUCODUR® BLACK 9-100			P.Bk. 28	$Cu(CrFe)O_4$	typ. 16	600
SUDATHERM BLACK 6461C			P.Bk. 28	$Cu(CrFe)O_4$	typ. 19	600
HEUCODUR® BLACK 953-1			P.Bk. 28	$Cu(CrFe)O_4$	typ. 15	600
SUDATHERM BLACK 6462C			P.Bk. 28	$Cu(CrFe)O_4$	typ. 11	600
HEUCODUR® BLACK 955 (C)			P.Bk. 27	Co(CrFe)2O4	typ. 17	600

Due to the limitation of printing process, some slight variations between the color as illustrated may be observed.
Reduction:for PY53 & PBr 24 productcs: refer ratio 1:1Tio2
Reduction:for PY119,PY164 productcs: refer ratio 1:4Tio2
Reduction:for PBI 28,PBI 36,PG 36,PG 50 productcs: refer ratio 1:3Tio2
Reduction:for PBk 27,PBk 28,PBr 29 productcs:refer ratio 1:5Tio2

Particle size (D50): As per ISO 13320
Oil absorption: As per ISO 787-5
Heat resistance : Tested in heat resistant coating up to 600 °C for 30 min
Alkali resistance: Tested in 10% soda solution & rated based on 1to 5 grey scale)

1.8.2
VANADUR® PIGMENTS

The Vanadur products are green shade Bismuth Vanadate pigments with outstanding application properties like improved opacity, high gloss, excellent weather and light fastness and good tinting strength. They are easily dispersed and are suitable in both solvent- and waterborne systems, including aqueous dispersions.

For improved application properties like extreme heat resistance and improved acid, alkali and SO2 resistance and light / UV resistance, Sudarshan also offers an encapsulated Bismuth Vanadate.

PRODUCT NAME AND CODE	FULL TONE	REDUCTION	CI NAME	MOLECULAR FORMULA	OIL ABSORPTION (G/100G)	HEAT RESISTANCE (˚C)"
VANADUR® 2108 (C)			P.Y. 184	BiVO4	typ. 19	200
VANADUR® 1010 (C)			P.Y. 184	BiVO4	typ. 27	200
VANADUR® PLUS 9010 (C)			P.Y. 184	BiVO4 (Silica Encapsulated)	typ. 29	300

Due to the limitation of printing process, some slight variations between the color as illustrated may be observed.
Reduction: 1:1Tio2
Particle size (D50): As per ISO 13320

Oil absorption: As per ISO 787-5
Heat resistance : Tested in alkyd/melamine system
Alkali resistance: Tested in 10% soda solution & rated based on 1to 5 grey scale)

2
PRODUCT CATEGORIES - PIGMENTS

2.1
OPAQUE PIGMENTS FOR LEAD-FREE PIGMENTATIONS

HOSTAPERM OXIDE YELLOW BV 01
HOSTAPERM OXIDE YELLOW BV 02
HANSA BRILLIANT YELLOW 2GX 70
SUDAFAST YELLOW 127
HANSA BRILLIANT YELLOW 2GX 70-S
SUDAFAST YELLOW 130C
NOVOPERM YELLOW 5GD 71
HOSTAPERM YELLOW H4G
SUDAPERM YELLOW 2903
HOSTAPERM YELLOW H4G 70
NOVOPERM YELLOW HR 70
SUDAFAST YELLOW 134
NOVOPERM YELLOW M2R 70
SUDAPERM YELLOW 2938C
SUDAPERM YELLOW 2937C
NOVOPERM ORANGE H5G 70
SUDAPERM ORANGE 2915C
NOVOPERM ORANGE HL 70
PERMANENT ORANGE RL 70
SUDAFAST YELLOW 341
PERMANENT RED FGR 70
NOVOPERM RED HF3S 70
HOSTAPERM RED D3G 70-CN
MONOLITE RED 325401
MONOLITE RED 325402
NOVOPERM RED F2RK 70
SUDAPERM RED 2963C
NOVOPERM RED F3RK 70
HOSTAPERM RED E2B 70

ALL PIGMENTS FORM
P.Y. 53, P.BR. 24, P.Y. 119,
P.Y. 164

2.2
TRANSPARENT PIGMENTS FOR EFFECT PAINTS

SUDAPERM YELLOW 2929C
SUDAPERM RED 2951C
SUDAPERM RED 2953C
SUDAPERM RED 2988C
HOSTAPERM RED E5B 02
SUDAPERM PINK 3000C
HOSTAPERM PINK E
HOSTAPERM PINK EB TRANSP.
SUDAPERM RED VIOLET 2995
HOSTAPERM RED VIOLET ER 02
SUDAPERM VIOLET 2941C
SUDAPERM VIOLET 2940C
HOSTAPERM VIOLET BL 01
HOSTAPERM VIOLET RL SPEC. 01
MONOLITE BLUE 3RX-H
HOSTAPERM BLUE BT-728-D
HOSTAPERM BLUE BT-729-D
HOSTAPERM BLUE BT-627-D
HOSTAPERM BLUE A4R
SUDAFAST BLUE 2662
MONOLITE BLUE CSN-N
HOSTAPERM BLUE BT-617-D
SUDAFAST BLUE 2773
HOSTAPERM BLUE B2G 03
MONOLITE BLUE 515303
SUDAFAST BLUE 2784
HOSTAPERM GREEN GNX
HOSTAPERM GREEN GNX 02
MONOLITE GREEN 600734
SUDAFAST GREEN 2727C
HOSTAPERM BROWN HFR 01

2.3
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

3
PIGMENT PREPARATIONS

3.1
COLANYL® 100

Colanyl 100 is a of range of aqueos, 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.

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER	GLYCOL
			g/cm³	%	%	%	%
YELLOW 10G 132	Yellow 3	11710	1.17	35	51	29	20
YELLOW 5GX 131	Yellow 74	11741	1.14	46	54	26	20
YELLOW FGL 133	Yellow 97	11767	1.12	38	52	30	18
YELLOW H3G 131	Yellow 154	11781	1.14	30	40	40	20
YELLOW 2GXD 130	Yellow 74	11741	1.17	48	57	18	25
YELLOW G 132	Yellow 1	11680	1.17	50	56	24	20
YELLOW HR 132	Yellow 83	21108	1.14	35	55	30	15
YELLOW HRD 132	Yellow 83	21108	1.19	50	58	27	15
ORANGE G 131	Orange 13	21110	1.17	40	47	36	17
RED GG 131	Orange 5	12075	1.20	45	56	24	20
RED FRLL 131	Red 9	12460	1.16	48	54	26	20
SCARLET RNX 130	Red 3	12120	1.19	50	59	28	13
SCARLET GO 533	Red 168	59300	1.22	35	51	29	20
RED FGRG 130	Red 112	12370	1.18	47	53	21	26
RED FGR 131	Red 112	12370	1.18	45	53	28	19
RED E3B 130	Violet 19	73900	1.13	32	47	28	25
PINK E 130	Red 122	73915	1.12	20	36	44	20
VIOLET RL 132	Violet 23	51319	1.14	30	45	37	18
BLUE A2R 131	Blue 15:1	74160	1.21	40	51	31	18
BLUE B2G 131	Blue 15:3	74160	1.23	47	54	26	20
GREEN GG 131	Green 7	74260	1.34	50	59	26	15
BLACK PR 130	Black 7	77266	1.18	30	38	37	25
BLACK N 131	Black 7	77266	1.27	42	49	31	20

3.1
COLANYL® 100

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER	GLYCOL
			g/cm³	%	%	%	%
OXIDE YELLOW BV 100	Yellow 184	771740	2.18	65	72	18	10
OXIDE YELLOW R 132	Yellow 42	77492	1.98	66	73	9	18
OXIDE RED G 130	Red 101	77491	2.17	65	71	11	18
OXIDE RED B 132	Red 101	77491	2.34	72	77	8	14
OXIDE BLUE COR 100	Blue 28	77346	1.95	60	67	15	18
OXIDE GREEN G 131	Green 17	77288	2.56	75	80	10	10
OXIDE BLACK B 130	Black 11	77499	1.90	50	62	18	20
WHITE R 130	White 6	77891	2.18	70	77	4	19

By adding Colanyl 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.

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 paints [1]. 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.

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm³	%	%	%
YELLOW 5GX 530	Yellow 74	11741	1.14	40	58	42
YELLOW FGL 531	Yellow 97	11767	1.15	38	65	35
YELLOW H3G 530	Yellow 154	11781	1.13	30	47	53
YELLOW 2GXD 530	Yellow 74	11741	1.19	41	61	39
YELLOW G 530	Yellow 1	11680	1.17	45	64	36
YELLOW HRD 530	Yellow 83	21108	1.18	50	69	31
ORANGE H5GD 500	Orange 62	11775	1.17	30	63	37
RED GG 531	Orange 5	12075	1.24	45	67	33
SCARLET GO 533	Red 168	59300	1.24	36	62	38
RED D3GD 532	Red 254	56110	1.24	50	66	34
RED HF3S 530	Red 188	12467	1.16	40	60	40
RED FGRD 530	Red 112	12370	1.17	45	61	39
RED FGR 531	Red 112	12370	1.20	47	70	30
RED E3B 531	Violet 19	73900	1.14	30	59	41
PINK E 532	Red 122	73915	1.08	20	56	44
PINK E-WD 531	Red 122	73915	1.14	32	57	43
VIOLET RL 532	Violet 23	51319	1.12	30	57	43
BLUE A2R 531	Blue 15:1	74160	1.20	40	62	38
BLUE B2G 530	Blue 15:3	74160	1.23	45	61	39
GREEN GG 531	Green 7	74260	1.34	50	71	29
BLACK N 530	Black 7	77266	1.28	43	63	37
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.

3.2
COLANYL® 500

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm³	%	%	%
OXIDE YELLOW BV 531	Yellow 184	771740	2.22	65	80	20
OXIDE YELLOW R 532	Yellow 42	77492	2.00	64	78	22
OXIDE RED G 531	Red 101	77491	2.16	65	79	21
OXIDE RED B 531	Red 101	77491	2.35	70	83	17
OXIDE BLUE COR 531	Blue 28	77346	1.96	62	79	21
OXIDE GREEN G 531	Green 17	77288	2.59	75	87	13
OXIDE BLACK B 533	Black 11	77499	1.80	53	71	29
OXIDE BLACK IR 531	Green 17	77288	2.38	70	84	16
WHITE R 530	White 6	77891	2.04	65	82	18
EXTENDER MS 531	–	–	1.68	60	78	22

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.

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 coatings [1]. They are also compatible with some other binder systems, e. g. water-based or solvent-based industrial paints, but the maximum dosage level and compatibility 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 Hostatint 500 can be adjusted.

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm³	%	%	%
YELLOW 12G 531	Yellow 3	11710	1.18	40	63	37
YELLOW 2GXD 531	Yellow 74	11741	1.15	40	65	35
YELLOW 4GX 531	Yellow 73	11738	1.16	38	63	37
YELLOW FGL 532	Yellow 97	11767	1.14	40	61	39
YELLOW HR 533	Yellow 83	21108	1.09	15	57	43
ORANGE HLD 533	Orange 36	11780	1.13	20	60	40
SCARLET GO 531	Red 168	59300	1.24	35	61	39
RED FGR 532	Red 112	12370	1.13	21	51	49
RED D3GD 532	Red 254	56110	1.15	30	61	39
PINK E 532	Red 122	73915	1.10	20	44	56
VIOLET RL 533	Violet 23	51319	1.11	15	48	52
BLUE B2G 531	Blue 15:3	74160	1.14	30	57	43
GREEN GG 531	Green 7	74260	1.18	30	61	39
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.

3.3
HOSTATINT™ 500

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm³	%	%	%
OXIDE YELLOW BV 531	Yellow 184	771740	2.07	65	85	15
OXIDE YELLOW R 533	Yellow 42	77492	1.87	60	81	19
OXIDE RED B 533	Red 101	77491	2.24	68	85	15
UMBER KT 533	Mix	–	2.03	65	96	4
OXIDE BLUE COR 531	Blue 28	77346	2.05	65	85	15
OXIDE GREEN CO 533	Green 50	77377	2.06	65	89	11
OXIDE GREEN G 532	Green 17	77288	2.16	60	79	21
OXIDE BLACK B 533	Black 26	77537	2.34	70	92	8
WHITE R 531	White 6	77891	2.17	70	89	11
EXTENDER MS 532	–	–	1.59	55	78	22
EXTENDER CC 532	–	–	1.28	30	61	39

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.

3.4
HOSTATINT™ A 100 / HOSTATINT™ A 100 ST

3.4.1
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.

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	SOLVENT CONTENT
			g/cm³	%	%	%
YELLOW A-H3G 100	Yellow 154	11781	1.23	42	65	35
YELLOW A-F2G 100	Yellow 194	11785	1.19	36	59	41
YELLOW A-HRD 100	Yellow 83	21108	1.16	28	52	48
ORANGE A-HLD 100	Orange 36	11780	1.25	43	60	40
RED A-D3GD 130	Red 254	56110	1.22	33	62	38
PINK A-E 130	Red 122	73915	1.13	19	45	55
RED VIOLET A-ER 130	Violet 19	73900	1.13	19	50	50
VIOLET A-RL 100	Violet 23	51319	1.12	12	40	60
BLUE A-BG 100	Blue 15:3	74160	1.17	24	60	40
GREEN A-GNX 130	Green 7	74260	1.22	23	50	40
BLACK A-N 100	Black 7	77266	1.17	21	55	45
OXIDE YELLOW A-BV 100	Yellow 184	771740	2.27	64	80	20
OXIDE YELLOW A-CR 100	Brown 24	77310	2.11	64	82	18
OXIDE YELLOW A-R 100	Yellow 42	77492	1.68	50	68	32
OXIDE RED A-B 100	Red 101	77491	2.06	62	78	22
TRANSOXIDE YELLOW A-2R 100	Yellow 42	77492	1.48	39	66	34
TRANSOXIDE RED A-G 100	Red 101	77491	1.59	40	67	33
WHITE A-R 100	White 6	77891	1.90	59	79	21

3.4.2
HOSTATINT™ A 100 ST

Hostatint A 100-ST dispersions are based on Automotive -grade pigments enhance color effects with intensity & transparency like that of dyes, while maintaining fastness properties and migration resistance of pigments.

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	SOLVENT CONTENT
			g/cm³	%	%	%
YELLOW A-N4G 100-ST	Yellow 150	12764	1.16	15	38	62
PINK A-EB 100-ST	Red 122	73915	1.13	7	27	73
BLUE A-BTR 100-ST	Blue 15:1	74160	1.12	7	41	59
BLUE A-BTG 100-ST	Blue 15:4	74160	1.15	15	36	64
GREEN A-GMB 100-ST	Mixture	n. a.	1.15	15	37	63
BLACK A-NB 100-ST	Black 7	77266	1.20	25	45	55
BLACK A-NY 100-ST	Black 7	77266	1.16	15	30	70

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.

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.

HOSTATINT UV	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	BINDER
			%	%
YELLOW H3G	Yellow 154	11781	42	24
RED D3GD	Red 254	56110	35	29
RED P2GL	Red 179	71130	22	32
BLUE BG	Blue 15:3	74160	24	25
WHITE R	White 6	77891	62	19
BLACK N 30	Black 7	77266	21	40
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.

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

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

3.7 HOSTAFINE®

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.

HOSTAFINE	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	GLYCOL
			g/cm³	%	%
YELLOW GR 31	Yellow 13	21100	1.13	40	10
YELLOW HR 33	Yellow 83	11741	1.13	32	10
RED HF3S 30	Red 188	12467	1.14	40	10
RED FGR 30	Red 112	12370	1.15	45	10
RED P2GL 30	Red 179	71130	1.12	25	10
RED F5RK 30	Red 170	12475	1.11	35	10
RUBINE F6B 31	Red 184	12467	1.11	40	10
MAGENTA E 30	Red 122	73915	1.09	20	10
VIOLET RL 30	Violet 23	51319	1.12	30	10
BLUE B2G 30	Blue 15:3	74160	1.18	40	10
GREEN GN 30	Green 7	74260	1.28	40	10
BLACK T 31	Black 7	77266	1.18	30	10
BLACK TS 30	Black 7	77266	1.22	33	–
TRANSOXIDE YELLOW R 33 [1]	Yellow 42	77492	1.37	35	–
TRANSOXIDE RED B 33 [1]	Red 101	77491	1.37	35	–

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.

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.

HOSTANOL HW 30	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	LIGHT FASTNESS	PARTICLE SIZE DISTRIBUTION
			%		d_{50} (nm)
YELLOW HR	Yellow 83	21108	50	6–7	≤ 75
RED F5RK	Red 170	12475	50	6	< 250
BLUE B2G	Blue 15:3	74160	50	8	< 100
BROWN HFR	Brown 25	12510	50	8	≤ 75
BLACK R	Black 7	77266	40	8	≤ 75
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.

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
YELLOW 2GLS 01	S. Y. 79					●				○		
YELLOW RLS	S. Y. 83:1					●				○		
YELLOW RLSN	S. Y. 8 3					○*				○		
YELLOW 2RLS	S. Y. 62					●				○		
ORANGE RLS	S. O. 41					●				○		
ORANGE RLSE	S. O. 62					○*				○		
FIRE RED 3GLS	S. R. 124					○*				○		
RED 3BLS	S. R. 91					●				○		
PINK 6BLS	S. R. 127					○*				○		
BLUE RS	S. B. 45					○*				○		
BLUE GLS	S. B. 44					●				○		
GREEN 2GLS 01	Mixture					○*				○		
BROWN GLS	Mixture					●				○		
BLACK RLSN 01	Mixture					●				○		

● recommended ○ limited suitability * limited fastness to overpainting

SUDARSHAN
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10/2025/SCI/C/001(Interim)