



**HEUBACH COATINGS
INNOVATION & SUSTAINABILITY
AT ITS BEST**



**BRIGHTER COLORS.
BRIGHTER LIFE.**

HEUBACH COATINGS INNOVATION & SUSTAINABILITY AT ITS BEST

Heubach offers a complete portfolio of high-performance organic and inorganic pigments and pigment preparations for coatings and paints. Engineered to show objects in their best light and to withstand the toughest demands.

Our coatings business has inherited over 200 years of market knowledge and extensive research and development. This allows our team of pigment experts around the world to set the industry standards, provide practical solutions and deliver innovative products in order to enable our customers' projects and future growth.

This is how Heubach has become a leading global supplier of high performance and economic organic pigments, pigment preparations and dyes, used in applications such as Automotive Coatings, Decorative Coatings, and Industrial Coatings.

We also strive to develop on innovative concepts and solutions based on the requirements of our customers, such as our Easily Dispersible Pigments, a true innovation allowing increased efficiency of paint manufacturing at lower costs.

Automotive Coatings

Complex organic and inorganic pigments from Heubach are designed to satisfy the highest demands for heat stability and chemical inertness as well as weather and light fastness, while taking account of the ecological aspects of the end product.



Decorative Coatings

Heubach offers a large range of pigment products and solutions to fulfill the specific and diverse challenges encountered in manufacturing decorative coatings: processability, color fastness, etc.

With experience in developing pigments and anticipating consumer and regulatory evolution, Heubach is uniquely able to provide color solutions, from economic to high performance, from water-based to solvent-based, from powder pigments to pigment preparations.





























Industrial Coatings

As a leading global manufacturer of organic pigments that we have developed specifically for use in industrial coatings applications, Heubach brings sustainable solutions to our customers. To help you find exactly the right coatings and finishes you need, we offer a complete range of colorants, from general purpose to high-performance grades, and from pigment preparations to dyes. Our broad portfolio includes solutions for diverse applications, including Heubach's RAL colors for industrial coatings, resistant finishes for commercial and construction vehicles, agricultural machinery and ships, and coil, powder and radiation-cured coatings.

























Our organic pigments are selected to achieve demanding paint properties, ensuring resistance to environmental conditions as well as creating the desired colors, flow properties and opacity on the substrate. For each application, we can create the paint formulation that relates specifically to your requirements regarding performance and the application process, as well as to the aesthetic effect of the final results.



PRODUCT RANGE FOR COATINGS

























Product Name	Colour Index	Automotive paints				Industrial paints				Decorative paints		Suitability#	
		OEM Paints	Refinish Paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing Epoxy	Coil Coating	Powder Coating	Solvent-based	Water-based	Interior Application
 HOSTAPERM® OXIDE YELLOW BV 02	P.Y. 184	■	■	■	■	■	●	●	■	■	●	●	●
 HOSTAPERM YELLOW H4G	P.Y. 151	●	■	■		■		○		■	●		●
 HOSTAPERM YELLOW H4G 70	P.Y. 151	●	■	■		■		○		■	●		●
 HOSTAPERM YELLOW H3G	P.Y. 154	■	●	■	○	●	○	●		●	●	●	●
 HOSTAPERM RED D3G 70	P.R. 254	●	●		■	■	■	●	●	●	●	●	●
 HOSTAPERM RED D2G 70	P.R. 254	■	■	■	■	■	■	●	●	●	●	●	●
 HOSTAPERM RED E5B 02	P.V. 19	●	●	■	■	■	●	●	○	●	●	●	●
 HOSTAPERM PINK E	P.R. 122	■	■	■	■	■	●	●	○	●	●	●	●
 HOSTAPERM PINK E-WD	P.R. 122					○	●				■	●	●
 HOSTAPERM PINK E2Y	P.R. 122					■	●	●	○	●	●	●	●
 HOSTAPERM RED VIOLET ER 02	P.V. 19	■	■	■	■	■	●	●	○	●	●	●	●
 HOSTAPERM VIOLET RL SPEC. 01	P.V. 23	■	■	■	■	■	●	●	●	●	●	●	●
 HOSTAPERM BLUE A4R	P.B.15:1	●	●	■	■	■	●	●	●	■	●	●	●
 HOSTAPERM BLUE BT-728-D	P.B.15:1	■	■	■	■								●
 HOSTAPERM BLUE BT-729-D	P.B.15:1	■	■	■	■								●
 HOSTAPERM BLUE BT-627-D	P.B. 15:2	■	■	■	■	●	●	●	●		●	●	●
 HOSTAPERM BLUE B2G 03	P.B.15:3	●	●	■	■	■	●	●	●	●	●	●	●
 HOSTAPERM BLUE BG	P.B. 15:3	●	●	■	■	■	●	●	●	●	●	●	●
 HOSTAPERM BLUE BX	P.B. 15:3					●	●	●	●	●	●	●	●
 HOSTAPERM BLUE BX 01-IN	P.B. 15:3		●	●	●	●	●	●	●	●	●	●	●
 HOSTAPERM BLUE BT-617-D	P.B.15:4	■	■	■	■	●	●	●	●				●
 HOSTAPERM GREEN GNX	P.G. 7	■	■	■	■	■	●	●	●	●	●	●	●
 HOSTAPERM BROWN HFR 01	P.Br. 25	■	■	■	■	●	●	●	○	●			●
 NOVOPERM® YELLOW HR 70-IN	P.Y. 83	○	●	●	●	■	●	●		■	●	●	●
 NOVOPERM YELLOW M2R 70	P.Y. 139	●	●	■	■	■	○	●	○	■			●
 NOVOPERM ORANGE HL 70	P.O. 36	■	■	■	■	■	●	●	○	■	●	●	●

■ highly recommended ● recommended ○ limited suitability

Product Name	Colour Index	Automotive paints				Industrial paints				Decorative paints		Suitability#	
		OEM Paints	Refinish Paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing Epoxy	Coil Coating	Powder Coating	Solvent-based	Water-based	Interior Application
 NOVOPERM RED HF3S 70	P.R. 188	●	●	■	○	■	●	●	○	●	●	●	●
 NOVOPERM RED HMY-IN	P.R. 188	●	●	■	○	■	●	●	○	●	●	●	●
 NOVOPERM RED F3RK 70	P.R. 170	○	●		●	■	●	●		■	●	●	●
 NOVOPERM RED RT-172-D-IN	P.R. 170	○	●		●	■	●	●		■	●	●	●
 NOVOPERM RED F5RK-IN	P.R. 170					■	●	●		■	●	●	●
 PERMANENT YELLOW GG-IN	P.Y. 17					○	○			○	●	●	●
 PERMANENT YELLOW GR-IN	P.Y. 13					○	○			○	●	●	●
 PERMANENT YELLOW Y2G 90-IN											●	●	●
 PERMANENT YELLOW Y2R 90-IN											●	●	●
 PERMANENT ORANGE RL 70	P.O. 34					■	●	○		■	●	●	●
 PERMANENT ORANGE G-IN	P.O. 13					○	○			○	●	●	●
 PERMANENT ORANGE G4R-IN	P.O. 13					○	○			○	●	●	●
 PERMANENT RED FGR 03-IN	P.R. 112					●	●	○		○	■	●	●
 PERMANENT RUBINE L5B 01 -IN	P.R. 57:1					○				○	●		●
 PERMANENT RED LB 01	P.R. 48:2									○	●		●
 PERMANENT BORDEAUX FRR-IN	P.R. 12		○			○	○	○			■		●
 HANSA® YELLOW 10G	P.Y. 3					○	○	○			■	●	●
 HANSA BRILLIANT YELLOW 5GX-IN	P.Y. 74					○	○	○			■	●	●
 HANSA YELLOW G-IN	P.Y. 1					○	○	○			■	●	●
 HANSA BRILLIANT YELLOW 2GX 70-IN	P.Y. 74					○	○	○			■	■	●
 DALAMAR® YELLOW YT-800 D-IN	P.Y. 65					○	○	○			■	■	●
 DALAMAR YELLOW YT-805 D	P.Y. 65					○	○	○			■	■	●
 HANSA RED R-IN	P.R. 4					○	○				■	●	●
 HANSA SCARLET RNS	P.R. 3					●		●			■	●	●

■ highly recommended ● recommended ○ limited suitability


























PRODUCT RANGE FOR COATINGS

Product Name	Colour Index	Automotive paints				Industrial paints				Decorative paints		Suitability#	
		OEM Paints	Refinish Paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing Epoxy	Coil Coating	Powder Coating	Solvent-based	Water-based	Interior Application
 HANSA SCARLET RNC	P.R. 3					•		•			■		○
 HANSA RED B	P.R. 3					•		•			■		○
 HANSA RED 2B SPL-IN	P.R. 3		○			•		•			■	•	•
 HANSA RED 3B-IN	P.R. 3		○			•		•			■	•	•
 PV FAST™ YELLOW HGR	P.Y. 191								•	•			•
 PV FAST YELLOW H3R	P.Y. 181	○	○	•					•	•			•
 PV FAST BLUE A4R	P.B. 15:1									•			•
 PV FAST BLUE BG	P.B. 15:3									■			•
 GRAPHTOL® YELLOW 3GP	P.Y. 155									○			•
 GRAPHTOL RED LC	P.R. 53:1									○			•
 SAVINYL® YELLOW RLS	S.Y. 83:1					•				○			•
 SAVINYL YELLOW RLSN	S.Y. 83					•				○			•
 SAVINYL YELLOW 2RLS	S.Y. 62					•				○			•
 SAVINYL ORANGE RLS	S.O. 41					•				○			•
 SAVINYL ORANGE RLSE	S.O. 62					•				○			•
 SAVINYL FIRE RED 3GLS	S.R. 124					•				○			•
 SAVINYL RED 3BLS	S.R. 91					•				○			•
 SAVINYL PINK 6BLS	S.R. 127					•				○			•
 SAVINYL DARK VIOLET R	A.V. 66					•				○			•
 SAVINYL BLUE RS	S.B. 45					•				○			•
 SAVINYL BLUE GLS	S.B. 44					•				○			•
 SAVINYL GREEN 2GLS 01	Mixture					•				○			•
 SAVINYL BROWN GLS	Mixture					•				○			•
 SAVINYL BLACK RLSN	Mixture					•				○			•

■ highly recommended

• recommended

○ limited suitability

Product Name	Colour Index	Automotive paints				Industrial paints				Decorative paints		Suitability#		
		OEM Paints	Refinish Paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing Epoxy	Coil Coating	Powder Coating	Solvent-based	Water-based	Interior Application	Exterior Application
 CC YELLOW FINE PASTE 511	P.Y. 3						●				■	●	○	
 CC YELLOW FINE PASTE 509	P.Y. 74						●				■	●	○	
 CC YELLOW FINE PASTE 155	P.Y. 154						●				■	●	●	
 CC YELLOW FINE PASTE 517	P.Y. 1						●				■	●	○	
 CC YELLOW FINE PASTE 512	P.Y. 83						●				■	●	●	
 CC RED FINE PASTE 535	P.O. 5						●				■	●	○	
 CC RED FINE PASTE 548	P.R. 112						●				■	●	○	
 CC RED FINE PASTE 555	P.R. 254						●				■	●	●	
 CC RED FINE PASTE 549	P.R. 3						●				■	●	○	
 CC RED FINE PASTE 554	P.R. 170						●				■	●	●	
 CC RED FINE PASTE 547	P.V. 19						●				■	●	●	
 CC VIOLET FINE PASTE 591	P.V. 23						●				■	●	●	
 CC BLUE FINE PASTE 612	P.B. 15:0						●				■	●	●	
 CC BLUE FINE PASTE 615	P.B. 15:3						●				■	●	●	
 CC GREEN FINE PASTE 631	P.G. 7						●				■	●	●	
 CC BLACK FINE PASTE 683	P.BI. 7						●				■	●	●	
 CC FPH YELLOW 517	P.Y. 1						●				■	●		
 CC FPH RED 542	P.R. 2						●				■	●		
 CC FPH BLUE 617	P.B. 15:0						●				■	●	●	
 CC FPH GREEN 636	P.G. 7						●				■	●	●	
 CC OXIDE YELLOW FP 401	P.Y. 42						●				■	■	●	●
 CC OXIDE YELLOW FP 402	P.Y. 42						●				■	■	●	●
 CC OXIDE RED FP 421	P.R. 101						●				■	■	●	●
 CC OXIDE RED FP 422	P.R. 101						●				■	■	●	●
 CC OXIDE RED FP 423	P.R. 101						●				■	■	●	●

- highly recommended
- recommended
- limited suitability

Suitability for exterior coating application depends upon various factors viz. type of resin, quality of extenders, substrate preparation, use of TiO etc. Customers are requested to check suitability of colorants in their coating system before going for bulk production.
* Shades are for indication purpose

LOW VOC PAINT COLORANTS

Heubach has developed two ranges viz. Colanyl® 500 and Hostatint® 500 pigment preparations with low VOC for paint systems.

Both product ranges are ranges of aqueous, binder-free pigment preparations and manufactured without using ethoxylated alkyl phenol (APEO) additives. Colanyl 500 and Hostatint 500 can be used for in-plant tinting and in Pointof-Sale machines (POS).

We offer 20 organic, 9 inorganic preparations, and 1 extender from Colanyl 500 range for all kinds of water-based paint decorative coatings.






















Hostatint 500 range comprises of 17 organic, 9 inorganic, and 2 extenders for water-based and solvent-based decorative coatings.

COLANYL® 500 - TINTING PASTES FOR LOW VOC WATER-BASED DECORATIVE PAINTS

- Comprehensive range of binder-free aqueous pigment preparations for low VOC water-based decorative paints
- Manufactured without using alkyl phenol ethoxylated (APEO) additives
- Suitable for manual and automatic dispensing equipment
- Extra narrow tolerances for exact color reproduction

APPLICATIONS

- Decorative paints based on aqueous emulsion paints and plasters/renderings based on aqueous polymer dispersions.
- Can be incorporated into aqueous wood stains, acrylic and polyester casting systems, latex, and water resistant inks; also compatible with other binder systems e. g. aqueous industrial paints.
- Recommended to check the maximum dosage level and compatibility of Colanyl 100 preparations in your paint system.

	Product Name	C.I. Pigment	C.I. No.	Pigment content [%]	Solid content [%]	Water [%]	Density [g/cm ³]
	COLANYL YELLOW 5GX 500	P.Y. 74	11741	40	58	42	1.14
	COLANYL YELLOW FGL 530	P.Y. 97	11767	38	65	35	1.10
	COLANYL YELLOW H3G 500	P.Y. 154	11781	30	47	53	1.13
	COLANYL YELLOW 2GXD 500	P.Y. 74	11741	48	62	38	1.18
	COLANYL YELLOW G 500	P.Y. 1	11680	50	64	36	1.18
	COLANYL YELLOW HRD 500	P.V. 83	21108	50	69	31	1.20
	COLANYL RED GG 530	P.O. 5	12075	45	67	33	1.19
	COLANYL SCARLET GO 531	P.R. 168	59300	36	62	38	1.25
	COLANYL RED D3GD 530	P.R. 254	56110	50	66	34	1.24
	COLANYL RED HF3S 500	P.R. 188	12467	40	60	40	1.18
	COLANYL RED FGRD 500	P.R. 112	12370	45	61	39	1.17
	COLANYL RED FGR 530	P.R. 112	12370	47	70	30	1.19
	COLANYL RED E3B 530	P.V. 19	73900	30	59	41	1.14
	COLANYL PINK E-WD 530	P.R. 122	73915	32	53	47	1.12
	COLANYL PINK E 531	P.R. 122	73915	20	51	49	1.09
	COLANYL VIOLET RL 531	P.V. 23	51319	30	63	37	1.13
	COLANYL BLUE A2R 530	P.B. 15:1	74160	40	62	38	1.22
	COLANYL BLUE B2G 500	P.B. 15:3	74160	45	61	39	1.24
	COLANYL GREEN GG 530	P.G. 7	74260	50	71	29	1.35
	COLANYL BLACK N 500	P.Bl. 7	77266	43	63	37	1.27
	COLANYL OXIDE YELLOW BV 530	P.Y. 184	771740	65	80	20	2.22
	COLANYL OXIDE YELLOW CR 530	P.Br. 24	77310	65	78	22	2.18
	COLANYL OXIDE YELLOW R 531	P.Y. 42	77492	64	78	22	1.99
	COLANYL OXIDE RED G 530	P.R. 101	77491	65	79	21	2.14
	COLANYL OXIDE RED B 530	P.R. 101	77491	70	83	17	2.34
	COLANYL OXIDE BLUE COR 530	P.B. 28	77346	62	79	21	2.00
	COLANYL OXIDE GREEN G 530	P.G. 17	77288	75	87	13	2.55
	COLANYL OXIDE BLACK B 532	P.Bl. 11	77499	53	71	29	1.79
	COLANYL WHITE R 500	P.W. 6	77891	65	82	18	2.05
	COLANYL EXTENDER MS 530	-	-	60	78	22	1.70

HOSTAFINE[®] - PIGMENT PREPARATIONS

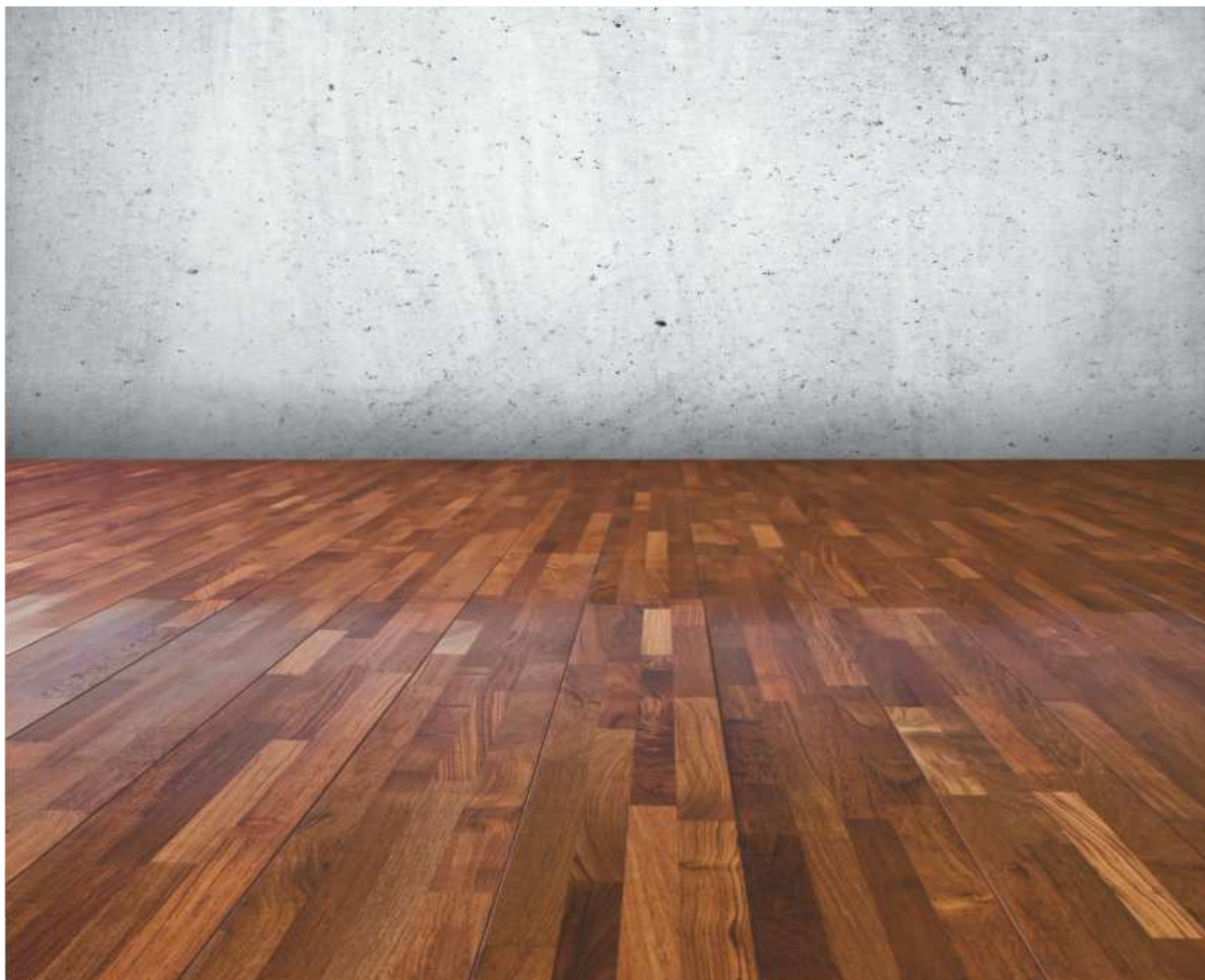
PRECIOUS WOOD MADE EASY

ADVANTAGES

- Ultra-finely dispersed pigment dispersions (no particles >1.0 micron, 95% pigment particles < 0.5 micron)
- High tinting strength and brilliance
- Outstanding transparency
- Superior fastness properties compared to dyes
 - Higher light fastness
 - No migration into WB and SB top coat
- Higher light fastness
- Easy-to-handle liquid pigment preparation
- Highly consistent quality
- Low viscosity and very good sedimentation behavior
- All Hostafines are APEO-free and compliant with EN 71/3

APPLICATIONS

- Coloration of wood, e.g. furniture, flooring, joinery and toys
- Transparent wood stains – water-based and water/alcohol combinations
- Tinted sealers and topcoats
- Water-based UV-curable coatings
- Suitable for tinting systems
- Colorants for wood impregnation (choice of color indices depending on application and durability requirements)



HOSTATINT® 500 MULTIPURPOSE TINTING PASTES

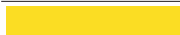


























- Binder-free pigment preparation range manufactured without using ethoxylated alkyl phenol (APEO) additives. These multipurpose preparations are compatible with water-based and solvent-based decorative coatings.
- Compliant: VOC-free and no APEO
- Suitable for automatic/manual dosing machines

APPLICATION

- Preferred field of application of Hostatint® 500 is decorative paints based on aqueous polymer dispersions of all kinds and long-oil alkyd resin paints.
- May be fully compatible with other binder systems, e.g. industrial paints, but this has to be checked by trials.



HOSTATINT® 500 RANGE

	Product Name	C.I. Pigment	C.I. No.	Pigment content [%]	Solid content [%]	Water [%]	Density [g/cm]
	HOSTATINT YELLOW 12G 530	P.Y. 3	11710	40	63	37	1.20
	HOSTATINT YELLOW 4GX 530	P.Y. 73	11738	38	63	37	1.17
	HOSTATINT YELLOW FGL 531	P.Y. 97	11767	38	63	37	1.14
	HOSTATINT YELLOW H3G 500	P.Y. 154	11781	30	63	37	1.14
	HOSTATINT YELLOW 2GXD 531	P.Y. 74	11741	40	65	35	1.18
	HOSTATINT YELLOW HR 532	P.Y. 83	21108	15	51	49	1.08
	HOSTATINT ORANGE GR 500	P.O. 43	71105	22	54	46	1.11
	HOSTATINT ORANGE 2RLD 500	P.O. 74	-	25	57	43	1.11
	HOSTATINT ORANGE HLD 532	P.O. 36	11780	20	52	48	1.10
	HOSTATINT SCARLET GO 530	P.R. 168	59300	35	61	39	1.24
	HOSTATINT RED FGR 530	P.R. 112	12370	21	48	52	1.15
	HOSTATINT RED D3GD 531	P.R. 254	56110	30	62	38	1.19
	HOSTATINT PINK E 531	P.R. 122	79915	20	53	47	1.10
	HOSTATINT VIOLET RL 531	P.V. 23	51319	18	52	48	1.10
	HOSTATINT BLUE B2G 531	P.B. 15:3	74610	30	57	43	1.16
	HOSTATINT GREEN GG 531	P.G. 7	74260	30	55	45	1.21
	HOSTATINT BLACK GR 531	P.Bl. 7	77266	35	57	43	1.22
	HOSTATINT OXIDE YELLOW BV 530	P.Y. 184	771740	65	87	13	2.26
	HOSTATINT OXIDE YELLOW R 531	P.Y. 42	77492	60	81	19	1.88
	HOSTATINT OXIDE RED B 531	P.R. 101	77491	68	86	14	2.26
	HOSTATINT UMBER KT 531	Mix	-	36	79	21	1.74
	HOSTATINT OXIDE BLUE COR 530	P.B. 28	77346	65	85	15	2.03
	HOSTATINT OXIDE GREEN CO 531	P.G. 50	77377	65	86	14	2.12
	HOSTATINT OXIDE GREEN G 531	P.G. 17	77288	67	92	8	2.17
	HOSTATINT OXIDE BLACK B 531	P.Bl. 33	77537	70	88	12	2.35
	HOSTATINT WHITE R 530	P.W. 6	77891	70	89	11	2.20
	HOSTATINT EXTENDER MS 530	-	-	55	78	22	1.59
	HOSTATINT EXTENDER CC 530	-	-	30	57	43	1.21

HOSTATINT® A 100

HIGH QUALITY PIGMENT PREPARATION FOR SOLVENT-BASED INDUSTRIAL COATINGS























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 applications.

FEATURES

- Wide selection of pigments
- High pigment loading and good rheological properties
- Good compatibility in all major solvent-based industrial paint systems
- Suitable for automatic and manual dispensers
- No hazardous labelling
- No special storage requirements associated with their flammability



HOSTATINT® A 100 RANGE

Product Name	C. I. Pigment	C.I. No.	Pigment content [%]	Solid content [%]	Solvent Content [%]	Density [g/cm]
 HOSTATINT YELLOW A-F2G 100	P.Y. 194	11785	36	59	41	1.19
 HOSTATINT YELLOW A-H3G 100	P.Y. 154	11781	42	65	35	1.22
 HOSTATINT YELLOW A-HRD 100	P.Y. 83	21108	28	52	48	1.16
 HOSTATINT ORANGE A-2RLD 100	P.O. 74	-	27	54	46	1.18
 HOSTATINT ORANGE A-HLD 100	P.O. 36	11780	43	60	40	1.26
 HOSTATINT RED A-D3GD 130	P.R. 254	56110	35	63	37	1.21
 HOSTATINT RED A-F3RKD 100	P.R. 170	12475	39	62	38	1.19
 HOSTATINT PINK A-E 130	P.R. 122	73915	19	45	55	1.12
 HOSTATINT RED VIOLET A-ER 130	P.V. 19	73900	19	49	51	1.13
 HOSTATINT VIOLET A-RL 100	P.V. 23	51319	12	40	60	1.12
 HOSTATINT BLUE A-BG 100	P.B. 15:3	74610	24	60	40	1.17
 HOSTATINT GREEN A-GNX 130	P.G. 7	74260	24	51	49	1.21
 HOSTATINT BLACK A-N 100	P.BI. 7	77266	21	55	45	1.17
"R" GRADES						
 HOSTATINT OXIDE YELLOW A-BV 100	P.Y. 184	771740	64	80	20	2.25
 HOSTATINT OXIDE YELLOW A-CR 100	P.Br.24	77310	64	82	18	2.08
 HOSTATINT OXIDE YELLOW A-R 100	P.Y. 42	77492	50	68	32	1.71
 HOSTATINT OXIDE RED A-B 100	P.R. 101	77491	62	78	22	2.06
 HOSTATINT TRANSOXIDE YELLOW A-2R 130	P.Y. 42	77492	36	67	33	1.18
 HOSTATINT TRANS OXIDE RED A-G 130	P.R. 101	77491	44	68	32	1.60
 HOSTATINT WHITE A-R 100	P.W. 6	77891	59	79	21	1.90
 HOSTATINT YELLOW A-2GXD 130 R	P.Y. 74	11741	34	81	19	1.05
 HOSTATINT RED A-FGRD 130 R	P.R. 112	12370	25	78	22	1.03

Important Notes: The R-Grades (restricted) are only recommended for air-drying alkyd coatings due to the poor solvent fastness of the pigments incorporated. A high solid alkyd resin solution with aliphatic high flash point solvent is used.

OPAQUE/SEMI-OPAQUE PIGMENTS FOR LEAD-FREE PAINTS

Heubach offers lead chrome-free pigments to the coating industry. We also help paint manufacturers by providing lead-free solutions. Our lead-free solutions are successfully accepted by most decorative, industrial paint manufacturers. Heubach's '70 series' and semi-opaque organic pigments are effectively used in lead-free paint formulations.

LEAD-FREE PIGMENTS

HANSA BRILLIANT YELLOW 2GX 70	(P.Y. 74)	HOSTAPERM RED D3G 70	(P.R. 254)
NOVOPERM YELLOW 5GD 71	(P.Y. 155)	HOSTAPERM RED D2G 70	(P.R. 254)
HOSTAPERM YELLOW H4G 70	(P.Y. 151)	NOVOPERM RED F3RK 70	(P.R. 170)
NOVOPERM YELLOW HR 70	(P.Y. 83)	NOVOPERM RED RT-172-D	(P.R. 170)
NOVOPERM YELLOW M2R 70	(P.Y. 139)	HOSTAPERM RED E2B 70	(P.V. 19)
NOVOPERM ORANGE H5G 70	(P.O. 62)	HANSA YELLOW G-IN	(P.Y. 1)
NOVOPERM ORANGE HL 70	(P.O. 36)	HANSA BRILLIANT YELLOW 5GX-IN	(P.Y. 74)
NOVOPERM ORANGE HL 70-NF	(P.O. 36)	DALAMAR YELLOW YT-800-D-IN	(P.Y. 65)
PERMANENT ORANGE 2RLD 71	(P.O. 74)	HANSA SCARLET RNS	(P.R. 3)
PERMANENT ORANGE RL 70	(P.O. 34)	HANSA RED 2B SPL.	(P.R. 3)
PERMANENT RED FGR 70	(P.R. 112)	HANSA RED 3B-IN	(P.R. 3)
NOVOPERM RED HF3S 70	(P.R. 188)	PERMANENT ORANGE G-IN	(P.O. 13)



TRANSPARENT PIGMENTS FOR EFFECT PAINTS

PRODUCT NAME

HOSTAPERM ORANGE GR	(P.O. 43)	HOSTAPERM RED VIOLET ER 02	(P.V. 19)	HOSTAPERM BLUE AFL	(P.B. 15:2)
HOSTAPERM SCARLET GO	(P.R. 168)	HOSTAPERM VIOLET BL 01	(P.V. 23)	HOSTAPERM BLUE BT-617-D	(P.B. 15:4)
HOSTAPERM SCARLET GO TRANSP.	(P.R. 168)	HOSTAPERM VIOLET RL SPEC.	(P.V. 23)	HOSTAPERM BLUE B2G-L	(P.B. 15:3)
HOSTAPERM RED P2GL-WD	(P.R. 179)	HOSTAPERM VIOLET RL-NF	(P.V. 23)	HOSTAPERM BLUE BFL	(P.B. 15:4)
HOSTAPERM RED E5B 02	(P.V. 19)	HOSTAPERM BLUE BT-728-D	(P.B. 15:1)	HOSTAPERM GREEN GG 01	(P.G. 7)
HOSTAPERM PINK E	(P.R. 122)	HOSTAPERM BLUE BT-729-D	(P.B. 15:1)	HOSTAPERM GREEN GNX	(P.G. 7)
HOSTAPERM PINK E TRANSP. 01	(P.R. 122)	HOSTAPERM BLUE BT-627-D	(P.B. 15:2)	HOSTAPERM GREEN 8G	(P.G. 36)
HOSTAPERM PINK EB TRANSP.	(P.R. 122)	HOSTAPERM BLUE A4R	(P.B. 15:1)	HOSTAPERM BROWN HFR 01	(P.BR. 25)



TECHNICAL SERVICE - COATING BUSINESS

The Heubach Group is a leading global supplier of comprehensive color solutions featuring technology, manufacturing, quality leadership and product stewardship. We are an innovation and supply partner of choice for many of the world's leading color users. Enabling coatings, plastics, inks and specialty companies deliver stellar products to their customers where color contributes to brand and value.

The Technical Service Centre, Airoli (TSCT) is built to provide timely and outstanding service as per our customers requirements. The combination of technical service with our products create opportunities to optimize products, processes, time to market and therefore one's competitive position.

TSCT serves as a showcase of expert know-how; customers can be provided with technical training sessions and hands-on experiments. The backbone of this Centre are our well trained experts, a wide range of state-of-the-art equipment, complemented by standard and specialized testing procedures developed by Heubach over decades.

COATINGS

- > Automotive
- > Powder
- > Decorative
- > Wood
- > Industrial



POWDER COATING APPLICATIONS & TESTING

TECHNICAL SERVICES LAB - COATINGS, AIROLI

'Green Coatings' has become a buzz word in global paint industry in recent years. The toxic effects are mainly due to the organic solvents used in the paints, which evaporate during the drying process. As powder coating is a 'solvent-free' coating, it has a great potential as environment-friendly coating.

The powder coatings sector has also benefited by the favorable economic conditions in India. Growth, particularly in the white goods sector and metal furniture industry has triggered the demand for powder coatings in India.

Powder coating is a type of coating that is applied as a free-flowing, dry powder. The main difference between a conventional liquid paint and a powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form.

The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a 'film'. It is usually used to create a hard finish that is tougher than conventional paint. Powder coating is mainly used for coating of metals, such as 'whiteware' aluminium extrusions, and automobile and bicycle parts.



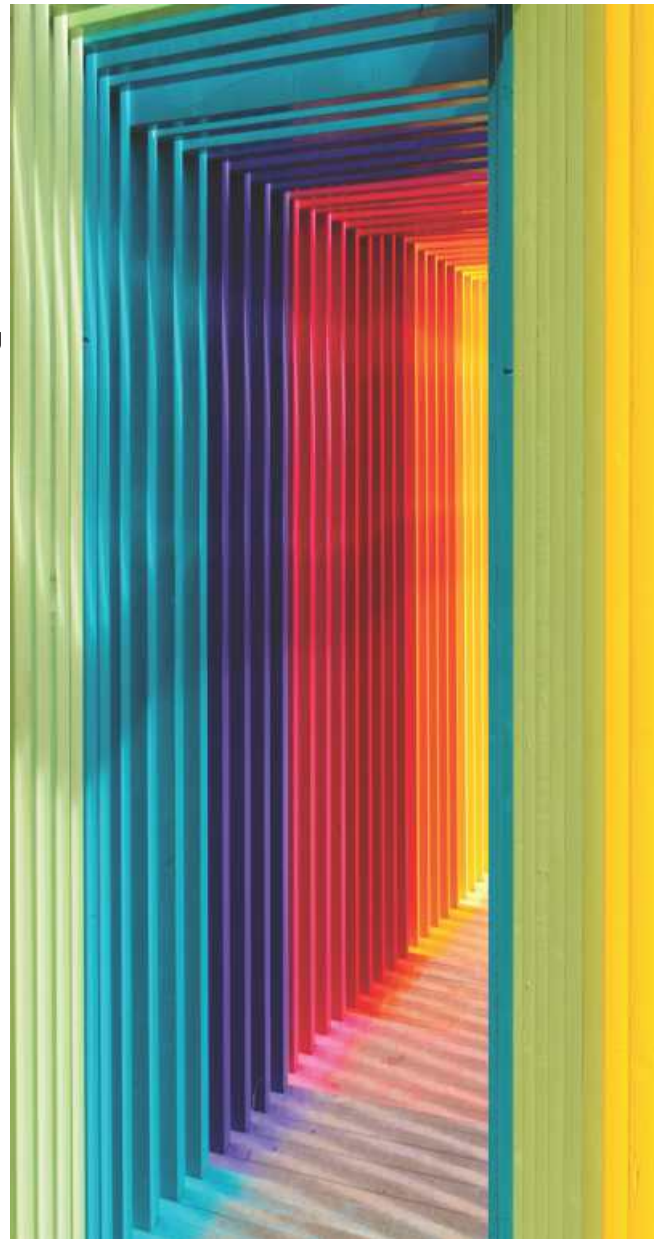
At Technical Services Lab – Coatings, Airoli, we have a dedicated powder coating facility with a full range of capabilities for the powder coating formulation, extrusion, processing, electrostatic spray, cure, and performance testing (coloristic, dft, gloss, UV resistance etc.).

Machines available in the Lab:

- Pre-mixer – Siemens
- Twin Screw Extruder – Coperion
- Grinding Mill - IKA Werke
- Vibrosieve
- Electrostatic Gun – ITW Gema
- Electric Oven

This state-of-the-art-facility enables us to enhance applications support for customers such as:

- Shade development
- Develop alternate formulations
- Develop cost-effective formulations
- Prepare pigment illustrations
- Competitor pigment evaluation



HEUBACH COLORANTS INDIA LIMITED

Formerly Clariant Chemicals (India) Limited

Reliable Tech Park, Off Thane-Belapur Road

Airoli, Navi Mumbai - 400 708, Maharashtra

Tel. : +91-22-7125 1114 / 1076

tushar.jagtap@clariant.com

nitin.vaidya@clariant.com

www.heubach.com

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