

MONOLITE™, MONASTRAL™,
VYNAMON™ & HEUCO®
**HIGH-PERFORMANCE ORGANIC
PIGMENTS FOR FASCINATING COLORS**



BRIGHTER COLORS.
BRIGHTER LIFE.

ABOUT US



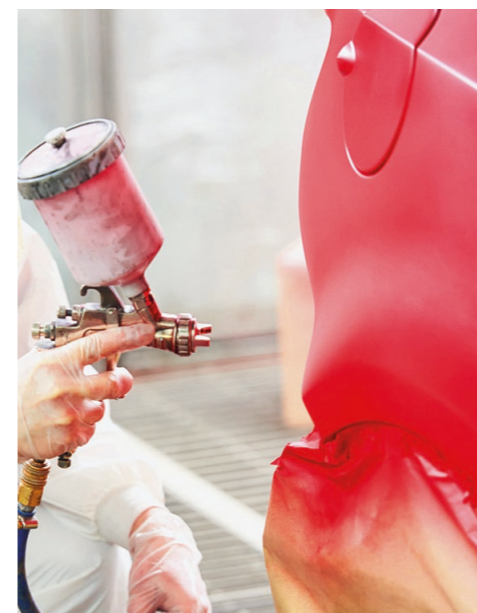
Heubach is a world leading independent and globally active pigment manufacturer.

A 210-year history of expertise in pigment production combined with ongoing innovations has enabled the outstanding growth of the Heubach group in the last few decades. After the start up of Heubach's first Indian plant for the production of Phthalocyanine Green pigments in 1995 the second factory for Phthalocyanine Blues followed in 1999.

The operation for Indanthrone Blue and brominated Phthalocyanine Green was started in 2001. The construction of two new state-of-the-art plants for the production of high-performance organic pigments was finalized in 2006 enabling the expansion of the organic pigment product portfolio with high performance red, orange and yellow pigments.

In 2012 a plant for the production of Indanthron blue crude was opened. Representing backward integration, this substantial investment ensures the quality of Indanthron blue pigments. Heubach is the only manufacturer that produces both the basic product crude as well as the pigment.

Today Heubach's high-performance organic pigment portfolio is comprised of Phthalocyanine Blues and Greens, Azo Yellows, Oranges and Reds, Indanthrone Blues, Anthanthrone, DPP and Quinacridone Reds.



MONOLITE™/MONAstral™ PIGMENTS FOR COATINGS

The MONOLITE™/MONAstral™ portfolio comprises a wide range of organic pigments for coating systems including OEM, Refinish, decorative and high-end industrial applications such as coil coatings.

The High performance grades such as Pigment Blue 60, Pigment Green 36, Pigment Red 168, Pigment Red 254 and Pigment Red 264 allow for excellent recoatability, as well as providing excellent solvent, weather, and light fastness.

PRODUCT NAME / COLOR INDEX	SPECIFIC SURFACE [m ² /g], DIN 66132	FASTNESS TO OVERPAINTING	HEAT RESISTANCE [°C]	APPLICATION FIELDS					FULL SHADE	REDUCTION 1:25 TiO ₂
				AUTOMOTIVE COATINGS	INDUSTRIAL COATINGS	DECORATIVE COATINGS	COIL COATINGS	POWDER COATINGS		
MONOLITE™ YELLOW 115101 Pigment Yellow 151	16	5 ¹	170 ³	●●	●●	●●				
MONOLITE™ YELLOW 107407 Pigment Yellow 74	14	4 ²	140 ⁴		●●	●●				
MONOLITE™ YELLOW 107408 Pigment Yellow 74	25	3-4 ²	140 ⁴		●●	●●				
MONOLITE™ YELLOW 115401 Pigment Yellow 154	11	4-5 ¹	160 ³	●●	●●	●●		●		
MONOLITE™ YELLOW 108304⁵ Pigment Yellow 83	20	5 ²	150 ⁴		●●	●●				
MONOLITE™ YELLOW 113901 Pigment Yellow 139	19	5 ¹	180 ³	●●	●●	●●	●●	●●		
MONOLITE™ ORANGE 200504 Pigment Orange 5	11	3-4 ²	160 ⁴		●●	●●				
MONOLITE™ RED 316802 Pigment Red 168	26	4-5 ¹	180 ³	●●	●●	●●				
MONOLITE™ RED 325401 Pigment Red 254	23	5 ¹	200 ³		●●	●●	●	●		
MONOLITE™ RED 325402 Pigment Red 254	19	5 ¹	200 ³	●●	●●	●	●●	●		
MONOLITE™ RED 326401 Pigment Red 264	80	5 ¹	200 ³	●●	●●		●●			
MONOLITE™ RED 312202 Pigment Red 122	66	5 ¹	180 ³	●●	●●	●●	●●	●		
MONOLITE™ RED 301901 Pigment Violet 19	74	5 ¹	200 ³	●●	●●	●●	●●			

1 = Tested in alkyd/melamine system with 30 minutes baking time at 160 °C. Rating with gray scale: 1 = poor, 5 = excellent.
 2 = Tested in 2 acrylic system with 30 minutes baking time at 80 °C. Rating with gray scale: 1 = poor, 5 = excellent.
 3 = Tested in alkyd/melamine system.
 4 = Tested in 2K acrylic system
 5 = Diarylide pigments should not be used at processing temperatures exceeding 200 °C due to potential cleavage to 3,3'-dichlorobenzidine (DCB) under these conditions.

Due to the limitation of printing process, some slight variations between the color as illustrated may be observed.

●● = Recommended ● = Potential Use

These products are suited for even the most critical coating systems. The organic grades with medium levels of fastness are ideally suited for standard formulations.

For example, they can be used in combination with the HEUCODUR® - Yellow pigments as lead chrome replacements yielding outstanding hiding power, gloss and chroma.

PRODUCT NAME / COLOR INDEX	SPECIFIC SURFACE [m ² /g], DIN 66132	FASTNESS TO OVERPAINTING	HEAT RESISTANCE [°C]	APPLICATION FIELDS					FULL SHADE	REDUCTION 1:25 TiO ₂
				AUTOMOTIVE COATINGS	INDUSTRIAL COATINGS	DECORATIVE COATINGS	COIL COATINGS	POWDER COATINGS		
MONOLITE™ BLUE CSN-N Pigment Blue 15:1	65	5 ¹	190 ³	●●	●●	●●				
MONOLITE™ BLUE 515100 Pigment Blue 15:1	62	5 ¹	200 ³	●●	●●	●●	●			
MONOLITE™ BLUE 515102 Pigment Blue 15:1	65	5 ¹	190 ³		●●	●●				
MONOLITE™ BLUE 515103 Pigment Blue 15:3	54	5 ¹	180 ³	●●	●●	●●	●	●		
MONOLITE™ BLUE 515400 Pigment Blue 15:4	40	5 ¹	180 ³		●●		●●			
MONOLITE™ BLUE 515402 Pigment Blue 15:4	50	5 ¹	190 ³		●●	●●	●●	●		
MONOLITE™ BLUE 3R-H Pigment Blue 60	35	5 ¹	220 ³	●●	●●					
MONOLITE™ BLUE 3RX-H Pigment Blue 60	81	5 ¹	220 ³	●●	●●					
MONOLITE™ GREEN 600734 Pigment Green 7	47	5 ¹	200 ³	●●	●●	●●	●●	●		
MONOLITE™ GREEN 600735 Pigment Green 7	53	5 ¹	200 ³	●●	●●	●●	●●	●		
MONAstral™ GREEN GN-C Pigment Green 7 / 36	45	5 ¹	180 ³	●●	●●	●●	●●			
MONAstral™ GREEN GNX-C Pigment Green 7 / 36	45	5 ¹	180 ³	●●	●●	●●	●●			
MONAstral™ GREEN LAG-C Pigment Green 7	44	5 ¹	200 ³	●●	●●	●●	●●			
MONAstral™ GREEN GBX-C Pigment Green 7	41	5 ¹	200 ³	●●	●●	●●	●●			
MONAstral™ GREEN 6Y-C Pigment Green 36	48	5 ¹	180 ³	●●	●●	●●	●●			

1 = Tested in alkyd/melamine system with 30 minutes baking time at 160 °C. Rating with gray scale: 1 = poor, 5 = excellent.
 3 = Tested in alkyd/melamine system.

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VYNAMON™

PIGMENTS FOR PLASTICS AND POWDER COATINGS

The VYNAMON™ range is specifically designed for the coloration of plastics for masterbatch, sheets, fibre as well as engineering plastics and powder coatings. All of the products provide optimized coloristic, dispersion and fastness properties and can be used in a wide variety of applications.

Heubach provides a complete organic product portfolio for plastics and powder coatings with high performance products including Pigment Blue 60, Pigment Yellow 180, Pigment Yellow 183, Pigment Red 122 and Pigment Red 254.

PRODUCT NAME / COLOR INDEX	SPECIFIC SURFACE [m ² /g], DIN 66132	FASTNESS TO MIGRATION DIN EN 14469-4	HEAT RESISTANCE [°C] 1/2 SD DIN EN 12877-2	APPLICATION FIELDS							FULL SHADE	REDUCTION 1:25 TiO ₂	
				PVC	POLYOLEFINS	POLYSTYRENE	ABS	POLYAMIDE	POLYCARBONATE	POWDER COATINGS			
VYNAMON™ YELLOW 118002 Pigment Yellow 180	50	5	320	●●	●●	●●	●●	●●	●●	●●	●●		
VYNAMON™ YELLOW 115002 Pigment Yellow 150	39	5	340	●●	●●	●	●	●					
VYNAMON™ YELLOW 118303 Pigment Yellow 183	22	5	320	●●	●●	●●	●●		●	●●			
VYNAMON™ YELLOW 119101 Pigment Yellow 191	19	5	320	●●	●●	●●	●●		●●	●●			
VYNAMON™ YELLOW 113901 Pigment Yellow 139	33	5	220	●●	●●	●				●●			
VYNAMON™ RED 325401 Pigment Red 254	27	5	320	●●	●●	●●	●●			●●			
VYNAMON™ RED 312202 Pigment Red 122	67	5	320	●●	●●	●●				●●			
VYNAMON™ BLUE 515100 Pigment Blue 15:1	57	5	280	●●	●●	●●							
VYNAMON™ BLUE 515303 Pigment Blue 15:3	55	5	340	●●	●●	●●	●	●●	●	●●			
VYNAMON™ BLUE 515309 Pigment Blue 15:3	58	5	300	●●	●●	●●	●	●●	●	●●			
VYNAMON™ BLUE 3R FW-H Pigment Blue 60	44	5	300	●●	●●	●●	●	●		●●			
VYNAMON™ GREEN 600734 Pigment Green 7	41	5	300	●●	●●	●●	●●	●	●●	●●			
VYNAMON™ GREEN 6Y FW-C Pigment Green 36	50	5	300	●●	●●	●●	●●	●	●●	●●			

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HEUCO®

PIGMENTS FOR INKS

The HEUCO® range of organic pigments represents our current offerings for various printing processes including: Offset, Flexography, Gravure and Digital.

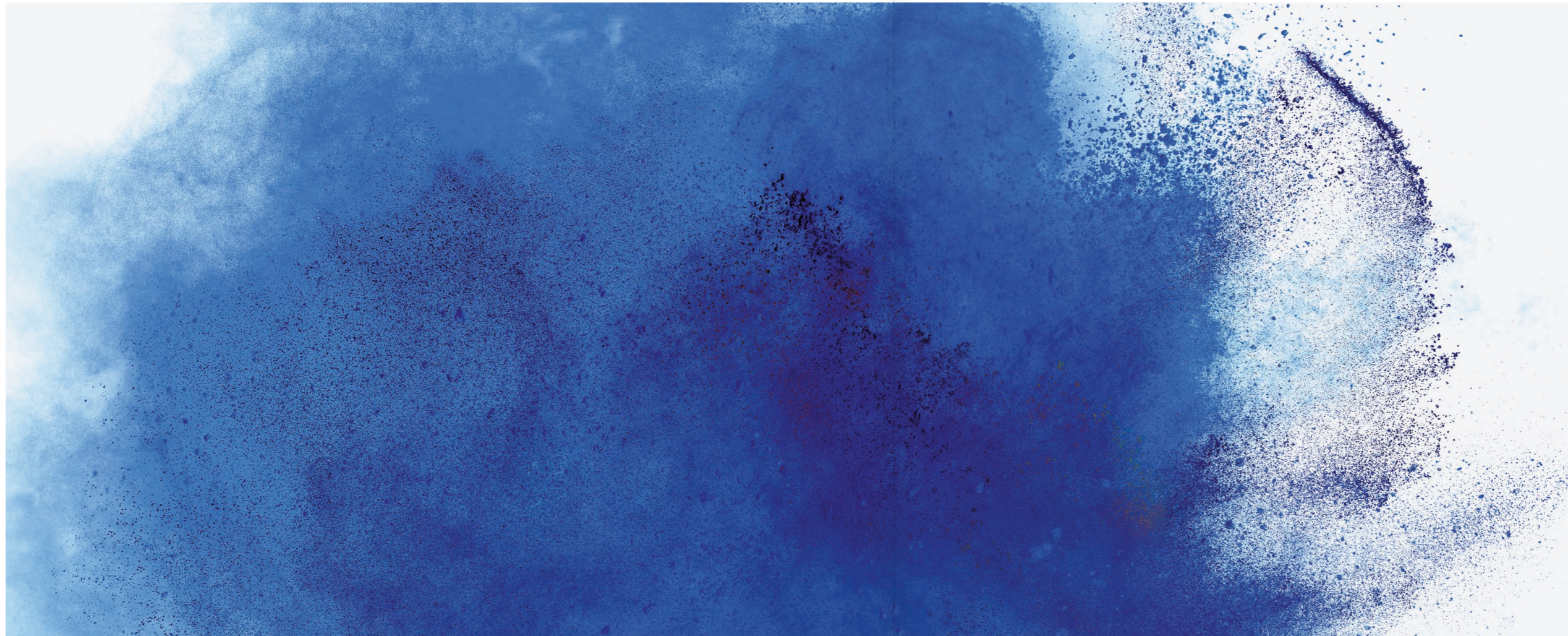
All products are formulated to exhibit optimal rheological properties, transparency, gloss and tinting strength in a variety of ink systems. Potential end use applications include: Flexible Packaging, Folding Carton, Publication and Commercial.

PRODUCT NAME / COLOR INDEX	SPECIFIC SURFACE [m ² /g], DIN 66132	LIGHT FASTNESS 1/2 SD (print) DIN EN ISO 105-B01	APPLICATION FIELDS						FULL SHADE	REDUCTION 1:25 TiO ₂
			OFFSET INKS	PUBLICATION GRAVURE	PACKAGING INKS (solvent-based)	PRINTING INKS (water-based)	LAMINATED INKS			
HEUCO® YELLOW 115003 Pigment Yellow 150	109	8					●●	●●		
HEUCO® ORANGE 200503 Pigment Orange 5	9	5-6	●●		●●	●●				
HEUCO® RED 300203 Pigment Red 2	42	4	●●			●●				
HEUCO® RED 300204 Pigment Red 2	51	4	●●		●	●●				
HEUCO® RED 325401 Pigment Red 254	23	6-7	●●		●●	●●	●			
HEUCO® RED 317601 Pigment Red 176	54	7			●	●●	●●	●●		
HEUCO® BLUE 515303 Pigment Blue 15:3	54	7	●●							
HEUCO® BLUE 515306 Pigment Blue 15:3	68	8					●●			
HEUCO® BLUE 515400 Pigment Blue 15:4	40	7-8		●●						
HEUCO® GREEN 600734 Pigment Green 7	47	7-8	●●		●●	●●				
HEUCO® GREEN 600735 Pigment Green 7	53	7-8	●●		●●	●●				

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SMART SOLUTIONS FOR SPECIALTY APPLICATIONS



Our organic product portfolio also offers solutions for Specialty Applications, such as:

- Agricultural applications:
Seed Coatings, Pesticides, Fertilizers
- Textiles, Leather, Latex
- Paper, Stationery
- Artist Colors, Wallpapers
- Wood

Latex products such as gloves or balloons need to exhibit high degrees of flexibility, stretchability and tensile strength. Under no circumstances should the colorants used to color latex compromise these essential product attributes, no matter how bright or strong the color of the finished product might be. Heubach HEUCO® pigments keep the impact to an absolute minimum, ensuring faultless product performance and guaranteeing strong vivid colors.

Modern paper suited to coloring paper, Heubach's HEUCO® pigments deliver maximum tinting quality for minimum cost. Likewise, HEUCO® pigments also provide an excellent cost-effective coloration for marking, branding and differentiating seeds as well as other organic products such as cat litter, Christmas trees or artificial grass.

Viscose fibers made from raw cellulose are used to produce textiles as well as nonwoven products such as household cleaning cloths and sponges. Heubach organic pigments provide perfect results for these application.

Our technical specialists will assist you to find the perfect match for your needs.

OUR SERVICE



At Heubach, customer satisfaction comes first. As a supplier of high quality pigment and pigment preparation solutions we support our customers anywhere where pigments are in use.

With active service centers both globally and regionally we provide our customers with the technical support essential for the implementation of customer-specific requirements and solutions.

Fully equipped technical laboratories and centers enable us to carry out tests for all relevant applications, such as printing inks, paints and coatings, including corrosion protection, coil and powder coatings and plastics.

Custom color adjustments play a significant role both in coatings and plastics applications. We have extensive expertise in the development of colors for a variety of plastics, paint and coating systems. Depending on fastness properties, application or processing requirements, we can deliver the right color for your application, plastic compounds or even a specific paint system.

HEUBACH GROUP

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. We make no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency, or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of our products for its particular application. *Nothing included in this information waives any of our General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing our products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact us.

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BRIGHTER COLORS.
BRIGHTER LIFE.