



# High-performance organic pigments for fascinating colors

MONOLITE™/MONASTRAL™ & VYNAMON™ & HEUCO®

heubach



#### 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	Technical Information			Application Fields					Full Shade	Reduction 1:25 TiO <sub>2</sub>
	Specific Surface (m <sup>2</sup> /g) (DIN 66127)	Fastness to Overpainting	Heat Resistance (°C)	Automotive Coatings	Industrial Coatings	Decorative Coatings	Coil Coatings	Powder Coatings		
MONOLITE™ Yellow 115101 Pigment Yellow 151	16.0	5 <sup>1)</sup>	170 <sup>3)</sup>	●●	●●	●●	●●	●●		
MONOLITE™ Yellow 107407 Pigment Yellow 74	14.0	4 <sup>2)</sup>	140 <sup>4)</sup>		●●	●●				
MONOLITE™ Yellow 107408 Pigment Yellow 74	25.0	3 - 4 <sup>2)</sup>	140 <sup>4)</sup>		●●	●●				
MONOLITE™ Yellow 115401 Pigment Yellow 154	11.0	4 - 5 <sup>1)</sup>	160 <sup>3)</sup>	●●	●●	●●		●●		
MONOLITE™ Yellow 108304 <sup>5)</sup> Pigment Yellow 83	20.0	5 <sup>2)</sup>	150 <sup>4)</sup>		●●	●●				
MONOLITE™ Yellow 113901 Pigment Yellow 139	19.0	5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●	●●	●●		
MONOLITE™ Red 316802 Pigment Red 168	26.0	4 - 5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●				
MONOLITE™ Red 325401 Pigment Red 254	23.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●			
MONOLITE™ Red 325402 Pigment Red 254	19.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●	●●			
MONOLITE™ Red 312202 Pigment Red 122	66.0	5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Red 301901 Pigment Violet 19	74.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●●			



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	Technical Information			Application Fields					Full Shade	Reduction 1:25 TiO <sub>2</sub>
	Specific Surface (m <sup>2</sup> /g) (DIN 66127)	Fastness to Overpainting	Heat Resistance (°C)	Automotive Coatings	Industrial Coatings	Decorative Coatings	Coil Coatings	Powder Coatings		
MONOLITE™ Blue CSN-N Pigment Blue 15:1	65.0	5 <sup>1)</sup>	190 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Blue 515100 Pigment Blue 15:1	62.3	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Blue 515303 Pigment Blue 15:3	54.0	5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●	●			
MONOLITE™ Blue 515400 Pigment Blue 15:4	40.0	5 <sup>1)</sup>	180 <sup>3)</sup>		●●		●●			
MONOLITE™ Blue 515402 Pigment Blue 15:4	50.0	5 <sup>1)</sup>	190 <sup>3)</sup>		●●	●	●●	●		
MONOLITE™ Blue 3R-H Pigment Blue 60	35.0	5 <sup>1)</sup>	220 <sup>3)</sup>	●●	●●					
MONOLITE™ Blue 3RX-H Pigment Blue 60	81.0	5 <sup>1)</sup>	220 <sup>3)</sup>	●●	●●					
MONOLITE™ Green 600734 Pigment Green 7	47.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Green 600735 Pigment Green 7	53.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Green GN-C Pigment Green 7 / Green 36	45.0	5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Green GNX-C Pigment Green 7 / Green 36	45.0	5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Green LAG-C Pigment Green 7	44.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Green GBX-C Pigment Green 7	41.0	5 <sup>1)</sup>	200 <sup>3)</sup>	●●	●●	●●	●●			
MONOLITE™ Green 6Y-C Pigment Green 36	48.0	5 <sup>1)</sup>	180 <sup>3)</sup>	●●	●●	●●	●●			

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

## 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	Technical Information			Application Fields							Full Shade	Reduction 1:25 TiO <sub>2</sub>
	Specific Surface (m <sup>2</sup> /g) (DIN 6632)	Fastness to Migration (DIN EN 14694)	Heat Resistance [°C] (1/3 SD) (DIN EN 12872)	PVC	Polyolefins	Polystyrene	ABS	Polyamide	Polycarbonate	Powder Coatings		
VYNAMON™ Yellow 118002 Pigment Yellow 180	50.0	5	320	●●	●●	●●	●●	●	●●	●●		
VYNAMON™ Yellow 115002 Pigment Yellow 150	39.0	5	340	●●	●●	●	●	●				
VYNAMON™ Yellow 118303 Pigment Yellow 183	22.0	5	320	●●	●●	●●	●●		●	●●		
VYNAMON™ Yellow 119101 Pigment Yellow 191	19.0	5	320	●●	●●	●●	●●		●●	●●		
VYNAMON™ Red 325401 Pigment Red 254	27.0	5	320	●●	●●	●●	●●			●●		
VYNAMON™ Red 312202 Pigment Red 122	67.0	5	320	●●	●●	●●	●●		●●	●●		
VYNAMON™ Blue 515100 Pigment Blue 15:1	57.0	5	300	●●	●●	●●	●	●●	●	●●		
VYNAMON™ Blue 515303 Pigment Blue 15:3	55.0	5	320	●●	●●	●●	●	●●	●	●●		
VYNAMON™ Blue 515309 Pigment Blue 15:3	57.8	5	300	●●	●●	●●	●●	●●	●	●●		
VYNAMON™ Blue 3R FW-H Pigment Blue 60	44.3	5	300	●●	●●	●●	●	●				
VYNAMON™ Green 600734 Pigment Green 7	41.0	5	320	●●	●●	●●	●●	●	●●	●●		
VYNAMON™ Green 6Y FW-C Pigment Green 36	50.0	5	300	●●	●●	●●	●●	●	●●			

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

●● Recommended ● Potential Use

## 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	Technical Information		Application Fields					Full Shade	Reduction 1:25 TiO <sub>2</sub>
	Specific Surface (m <sup>2</sup> /g) (DIN 6632)	Light Fastness (1/25 SD) (DIN EN 150 105-001)	Offset Inks	Publication Gravure	Packaging Inks (Solvent-based)	Packaging Inks (Water-based)	Laminated Inks		
HEUCO® Yellow 115003 Pigment Yellow 150	109.0	8				●●	●●		
HEUCO® Red 300203 Pigment Red 2	42.3	4	●●			●●			
HEUCO® Red 300204 Pigment Red 2	51.4	4	●●		●	●●			
HEUCO® Red 325401 Pigment Red 254	23.2	6 - 7	●●		●●	●●	●		
HEUCO® Blue 515303 Pigment Blue 15:3	54.0	7	●●						
HEUCO® Blue 515400 Pigment Blue 15:4	40.0	7 - 8		●●	●●				
HEUCO® Green 600734 Pigment Green 7	47.0	7 - 8	●●		●●	●●			
HEUCO® Green 600735 Pigment Green 7	53.2	7 - 8	●●		●●	●●			

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

●● Recommended ● Potential Use



#### 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.

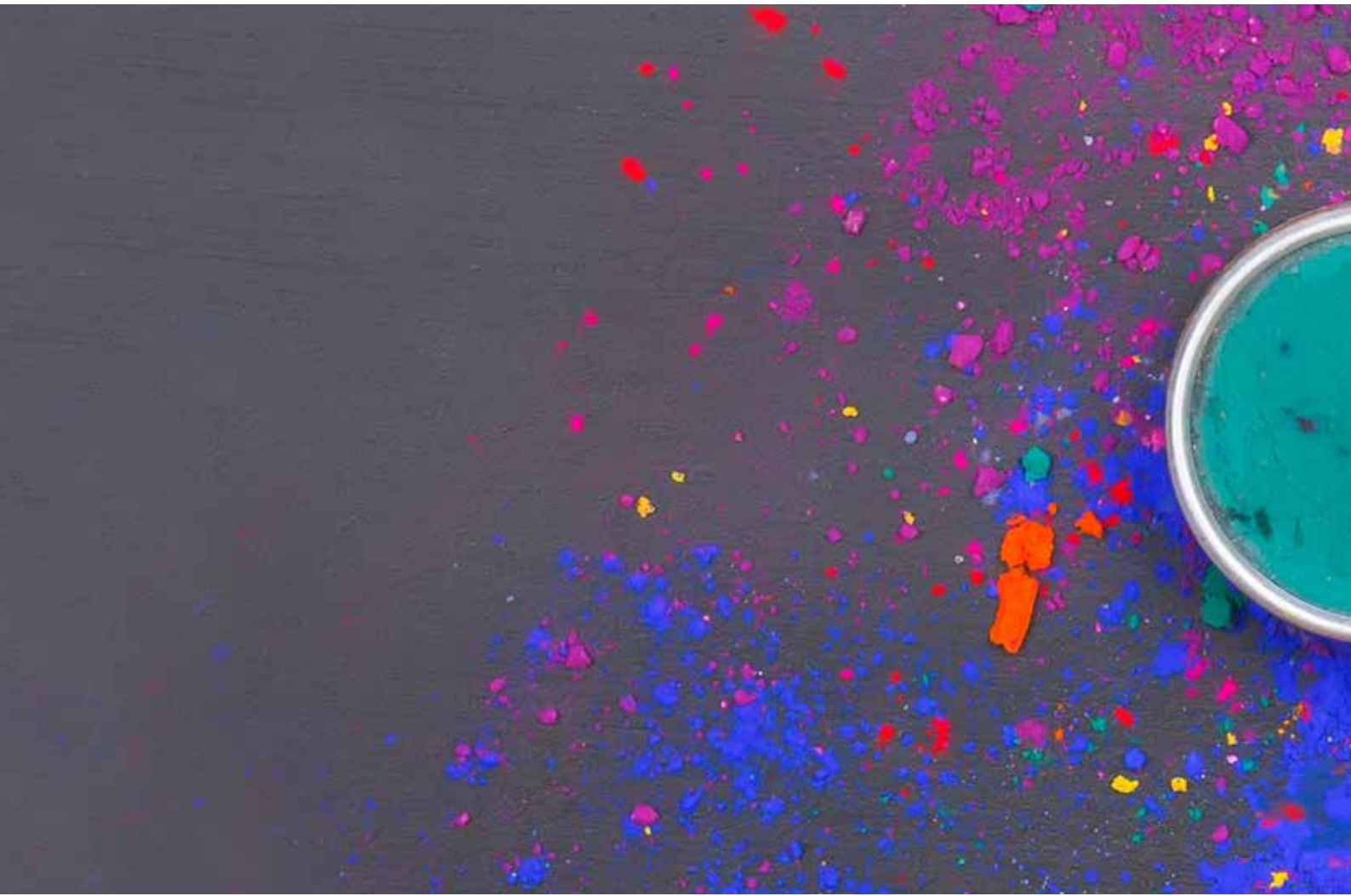
With active service centers both globally and regionally we provide our customers with the technical support essential for the implementation of customer-specific requirements and solutions.

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.





® = Registered trademark of Heubach GmbH.

Our product specifications, application information and any other information in this document is based on our current state of knowledge at the Revision Date mentioned below. They are non-binding and cannot be taken as a guarantee. The processing company must establish the suitability of individual products itself. As their use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in particular applications. In addition to that, the legal rights of third parties must always be considered. The specification agreed between the customer and ourselves is the basis upon which our general sales and delivery conditions are set and is the deciding factor concerning any liabilities. Our standard specification is then valid if no specification has been agreed upon between the customer and ourselves.

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