High-performance organic pigments for fascinating colors

MONOLITE™ & VYNAMON™ & HEUCO®
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 Indanthrone blue crude was opened. Representing backward integration, this substantial investment ensures the quality of Indanthrone 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.
The MONOLITE™ 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. 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.

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### MONOLITE™ Pigments for Coatings

**Product Name / Color Index**

- **MONOLITE™ Yellow 115101**
  - Pigment Yellow 151
  - Technical Information: 16 (5) 5 170
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Yellow 107407**
  - Pigment Yellow 24
  - Technical Information: NEW 14 (4) 5 140
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Yellow 107408**
  - Pigment Yellow 24
  - Technical Information: 25 (3) - 4 5 140
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Yellow 115401**
  - Pigment Yellow 154
  - Technical Information: 11 (4) - 5 5 160
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Yellow 108304**
  - Pigment Yellow 83
  - Technical Information: 20 (5) - 5 5 150
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Yellow 119301**
  - Pigment Yellow 139
  - Technical Information: 19 (5) - 5 5 180
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Orange 205304**
  - Pigment Orange 5
  - Technical Information: 11 (3) - 4 5 160
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Red 316802**
  - Pigment Red 168
  - Technical Information: NEW 26 (5) - 5 5 160
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Red 325401**
  - Pigment Red 254
  - Technical Information: 23 (5) - 5 5 200
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Red 325402**
  - Pigment Red 254
  - Technical Information: 19 (5) - 5 5 200
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Red 326401**
  - Pigment Red 254
  - Technical Information: 80 (5) - 5 5 200
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Red 313202**
  - Pigment Red 122
  - Technical Information: 66 (5) - 5 5 180
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Red 301901**
  - Pigment Violet 19
  - Technical Information: 34 (5) - 5 5 200
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

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**Potential Use/Recommended**

- **MONOLITE™ Blue CSN-N**
  - Pigment Blue 15:1
  - Technical Information: 65 (5) - 5 5 190
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Blue 600734**
  - Pigment Green 7
  - Technical Information: 54 (5) - 5 5 180
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Green 751**
  - Pigment Green 7
  - Technical Information: 44 (5) - 5 5 180
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Green GBX-C**
  - Pigment Green 7
  - Technical Information: 41 (5) - 5 5 180
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

- **MONOLITE™ Green 860**
  - Pigment Green 36
  - Technical Information: 48 (5) - 5 5 180
  - Application Fields: Full Shade
  - Reduction 1:25 TiO₂: 5

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1) Pigments were tested in an alkyd/melamine system with 30 minutes baking time at 160 °C.
2) Pigments were tested in a 2C-acrylate system with 30 minutes baking time at 80 °C.
3) Pigments were tested in an alkyd/melamine system.
4) Pigments were tested in a 2C-acrylate 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.
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.

HEUCO® Pigments for Inks

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.

<table>
<thead>
<tr>
<th>Product Name / Color Index</th>
<th>Technical Information</th>
<th>Application Fields</th>
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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.
Applications
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 applications.

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.
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.