

# **COLORANTS FOR DIPPED LATEX APPLICATIONS**



# COLORANTS FOR DIPPED LATEX APPLICATIONS

Heubach offers an extensive range of pigment preparations for the latex industry. Products from our Colanyl<sup>®</sup>, CC Fine Pastes, Flexonyl<sup>®</sup>, Cosmenyl<sup>®</sup> and Pulonyl pigment preparations ranges have been especially selected and tested for the application in natural and synthetic rubber systems for the coloration of gloves, balloons and other rubber articles. These pigment preparations are based on organic and inorganic pigments which have been dispersed using Heubach's technology. A consistent and high quality is ensured by our very stringent quality control.

This shade card represents the colorant in four-color process printing. Slight differences might occur in your application. Additionally, the final formulation could have an impact on the color appearance and stability. Please conduct preliminary tests to confirm suitability in your formulation. Our product portfolio is continuously being improved to keep pace with the dynamic market needs. Due to several local regulations, we can give a guideline on technical suitability of the product only. We recommend observing local legislation before finally using the colorants.



**To meet our customers specific requirements, we offer various types of key colorants suitable for natural and synthetic latex formulations:**

**LATEX COLORANTS – SPECIAL SERIES SPECIFICALLY DESIGNED FOR LATEX APPLICATIONS**

These colorants are standardized in a latex test method and highly recommended for latex applications.

**NEW COSMETIC GRADE COLORANTS FOR SPECIAL LATEX APPLICATIONS**

These Cosmenyl 100 products have been equipped with a combination of preservatives that meet the latest regulatory requirements for cosmetic products as laid down in the European Cosmetics Regulation No. 1223/2009.

**ECONOMIC COLORANTS FOR LATEX APPLICATIONS**

These products are recommended for cost sensitive technical applications, for which no specific regulations have to be observed.

**COLORANTS IN COMPLIANCE WITH SPECIFIC EU REGULATIONS**

These products are in compliance with the requirements for heavy metal trace impurities and the content of primary aromatic amines as laid down for these parameters in the scope of the EU toys regulation EN71-9 as well as the Council of Europe Resolution AP(89)1. For the heavy metals as specified in EN 71-3 resp. 2009/48/EC for colorants that are intended to be used for the coloration of colored toys, Heubach follows with the listed products the ETAD recommendations by measuring the total element content (details see page 8).

**COLORANTS IN COMPLIANCE WITH SPECIFIC US REGULATIONS**

In these products the individual basic pigments are in compliance with 21CFR 178.3297, the US regulation for rubber articles intended for repeated use in food contact applications.

All listed colorants show an excellent compatibility in latex systems and have been tested for bleed fastness properties.

Heubach's pigment preparations based on standard colors offer high flexibility for faster and economic color solutions versus customized color mixing.







In addition to the color selection in this brochure, Heubach provides a multitude of other colorants which may also perform in latex applications.

Please contact Heubach for more details.

# COLORANTS SPECIFIC FOR LATEX APPLICATIONS

## LATEX COLORANTS








Pulonyl are colorants that are specifically recommended to the latex industry. These pigment preparations are specially developed in line with technical requirements for the latex industry, taking a balance between technical performance and commercial flexibility in mind. All products are standardized in latex applications. Pulonyl grades are aqueous pigment preparations and manufactured neither with additionally added binders nor with ethoxylated alkyl phenols (APEO). They are based on non-ionic and /or anionic wetting and dispersing agents and can be added directly into the latex system.

| COLOR  | PRODUCT DESCRIPTION              | COLOUR INDEX NAME | C. I. NO. | BLEED FASTNESS (90°C, 5H) |
|--|----------------------------------|-------------------|-----------|---------------------------|
|   | <b>PULONYL BLUE A2R 130-TH</b>   | Pigment Blue 15:1 | 74160     | 5                         |
|   | <b>PULONYL BLUE B2G 100-TH</b>   | Pigment Blue 15:3 | 74160     | 5                         |
|   | <b>PULONLY VIOLET RL 130-TH</b>  | Pigment Violet 23 | 51319     | 5                         |
|   | <b>PULONYL VIOLET 3RL 100-TH</b> | Pigment Violet 23 | 51319     | 5                         |
|   | <b>PULONYL GREEN GG 130-ID</b>   | Pigment Green 7   | 74260     | 5                         |
|  | <b>PULONYL BLACK V 120-TH</b>    | Pigment Black 7   | 77266     | 5                         |

# COLORANTS FOR SPECIAL LATEX APPLICATIONS

## COSMETIC GRADE COLORANTS

Cosmenyl 100 pigment preparations are readily pumpable and flowable aqueous dispersions. The basic pigment of the dispersions listed below comply with the requirements for cosmetic colorants defined by the European Union in the Cosmetic Directive 1223/2009/EC. Cosmenyl 100 grades are aqueous pigment preparations. They are manufactured without any ethoxylated alkyl phenols (APEO) and can be added directly into the latex system.

| COLOR   | PRODUCT DESCRIPTION              | COLOUR INDEX NAME | C. I. NO. | BLEED FASTNESS (90°C, 5H) |
|---|----------------------------------|-------------------|-----------|---------------------------|
|  | <b>COSMENYL YELLOW 100</b>       | Pigment Yellow 1  | 11680     | 5                         |
|  | <b>COSMENYL OXIDE YELLOW 100</b> | Pigment Yellow 42 | 77492     | 5                         |
|  | <b>COSMENYL CARMINE OC 100</b>   | Pigment Red 146   | 12485     | 5                         |
|  | <b>COSMENYL VIOLET 100</b>       | Pigment Violet 23 | 12485     | 5                         |
|  | <b>COSMENYL BLUE OC 100</b>      | Pigment Blue 15:1 | 74160     | 5                         |
|  | <b>COSMENYL GREEN OC 100</b>     | Pigment Green 7   | 74260     | 5                         |
|  | <b>COSMENYL BLACK 100</b>        | Pigment Black 7   | 77266     | 5                         |

For additional product requests please contact our Technical Service Team in your region.

# ECONOMIC COLORANTS FOR LATEX APPLICATIONS

Economic colorants selected from global and regional portfolio are listed in the table below. These products are recommended for cost sensitive technical applications, for which no specific regulatory requirements have to be observed. Products might not be available in every country.

Colanyl, Flexonyl and CC Fine Paste grades are aqueous pigment preparations. They are manufactured without any additionally added binders as well as ethoxylated alkyl phenols (APEO). They are based on non-ionic and / or anionic wetting and dispersing agents.

Flexonyl WF grades are aqueous pigment preparations. They are manufactured without any glycols as well as wetting agents. They contain small amounts of acrylic resin as a stabilizer. Both Colanyl and Flexonyl products can be added directly into the latex system.

There is a multitude of other colorants which may perform perfectly in your specific formulation. For additional product requests please contact our Technical Service Team in your region.

## ECONOMIC COLORANTS

| COLOR   | PRODUCT DESCRIPTION                  | COLOUR INDEX NAME | C. I. NO. | BLEED FASTNESS (90 °C, 5H) |
|---|--------------------------------------|-------------------|-----------|----------------------------|
|  | <b>CC YELLOW FP 511</b>              | Pigment Yellow 3  | 11710     | 4                          |
|  | <b>COLANYL YELLOW G 100 CONC.-ID</b> | Pigment Yellow 74 | 11741     | 3-4                        |
|  | <b>COLANYL YELLOW HR 100-ID</b>      | Pigment Yellow 83 | 21108     | 4                          |
|  | <b>FLEXONYL ORANGE G</b>             | Pigment Orange 13 | 21110     | 5                          |
|  | <b>CC RED FINE PASTE 555</b>         | Pigment Red 254   | 56110     | 4-5                        |
|  | <b>COLANYL CARMINE LTX 100-ID</b>    | Pigment Red 146   | 12485     | 5                          |
|  | <b>CC RED FINE PASTE 554</b>         | Pigment Red 170   | 12475     | 5                          |
|  | <b>CC RED FINE PASTE 547</b>         | Pigment Violet 19 | 73900     | 5                          |
|  | <b>COLANYL VIOLET 3RL 100-ID</b>     | Pigment Violet 23 | 51319     | 5                          |
|  | <b>COLANYL BLUE A2R 100-ID</b>       | Pigment Blue 15:1 | 74160     | 5                          |
|  | <b>COLANYL BLUE B2G 530</b>          | Pigment Blue 15:3 | 74160     | 5                          |
|  | <b>CC GREEN FINE PASTE 631 LVOC</b>  | Pigment Green 7   | 74260     | 5                          |
|  | <b>VISCOFIL BLACK VBC</b>            | Pigment Black 7   | 77266     | 5                          |
|  | <b>FLEXONYL BLACK WF 007-IN</b>      | Pigment Black 7   | 77266     | 5                          |

# COLORANTS

## FULFILLING SPECIFIC PURITY REQUIREMENTS IN THE EU







Our listed core products meet the purity criteria concerning heavy metal trace impurities and the content of primary aromatic amines as laid down for these parameters in the corresponding EU standard EN 71-9 as well as the Council of Europe Resolution AP (89)1. These products have been especially tested according to the test method as laid down in EN 71-10 and EN 71-11 for regulated primary aromatic amines. For the heavy metals as specified in EN 71-3 resp. 2009/48/EC for colorants that are intended to be used for the coloration of colored toys, Heubach follows with the listed products the ETAD recommendations by measuring the total element content (details see page 8).

The products have been selected from the global Cosmenyl, Flexonyl and Colanyl portfolio. All our pigment dispersions marketed in the EU are in compliance with the REACH regulation (EC) 1907/2006.

Cosmenyl pigment preparations are readily pumpable and flowable aqueous dispersions. The basic pigment of the dispersions listed below comply with the requirements for cosmetic colorants defined by the European Union in the Cosmetic Directive 1223/2009/EC. They are manufactured without any ethoxylated alkyl phenols (APEO).

Colanyl and Flexonyl are aqueous pigment preparations. They are produced without any additional binders as well as ethoxylated alkyl phenols (APEO). They are based on nonionic and /or anionic wetting and dispersing agents.

### COLORANTS IN COMPLIANCE WITH SPECIFIC EU REGULATIONS

| COLOR   | PRODUCT DESCRIPTION               | COLOUR INDEX NAME | C. I. NO. | BLEED FASTNESS (90°C, 5 H) |
|---|-----------------------------------|-------------------|-----------|----------------------------|
|  | <b>COLANYL YELLOW 2GXD 530</b>    | Pigment Yellow 74 | 11741     | 3-4                        |
|  | <b>COLANYL YELLOW HRD 530</b>     | Pigment Yellow 83 | 21108     | 4                          |
|  | <b>COSMENYL OXIDE YELLOW 100</b>  | Pigment Yellow 42 | 77492     | 5                          |
|  | <b>FLEXONYL ORANGE G</b>          | Pigment Orange 13 | 21110     | 5                          |
|  | <b>COSMENYL CARMINE FB 30-IN</b>  | Pigment Red 5     | 12490     | 5                          |
|  | <b>COLANYL CARMINE LTX 100-ID</b> | Pigment Red 146   | 12485     | 5                          |
|  | <b>COLANYL RED D3GD 532</b>       | Pigment Red 254   | 56110     | 4-5                        |
|  | <b>COLANYL PINK E 130</b>         | Pigment Red 122   | 73915     | 5                          |
|  | <b>COLANYL RED E3B 531</b>        | Pigment Violet 19 | 73900     | 5                          |
|  | <b>COLANYL VIOLET RL 532</b>      | Pigment Violet 23 | 51319     | 5                          |
|  | <b>COLANYL BLUE A2R 531*</b>      | Pigment Blue 15:1 | 74160     | 5                          |
|  | <b>COLANYL BLUE B2G 530*</b>      | Pigment Blue 15:3 | 74160     | 5                          |
|  | <b>COLANYL GREEN GG 531*</b>      | Pigment Green 7   | 74260     | 5                          |
|  | <b>COSMENYL BLACK 100</b>         | Pigment Black 7   | 77266     | 5                          |

All products marked with an \* are based on copper phthalocyanine pigments. For these products the ionogenic copper content has to be considered, when measuring the heavy metal content.

# COLORANTS BASED ON PIGMENTS IN COMPLIANCE WITH SPECIFIC US REGULATIONS









Our listed core pigment preparations are based on pigments which are in compliance with the FDA Regulation 21CFR 178.3297. Some dosage limitations may exist depending upon the pigment, the type of article or the intended food contact. However, a final confirmation can only be obtained by testing the end article and completing an FDA review.

The products have been selected from the global Colanyl and Flexonyl portfolio. For local or regional products with corresponding Color Indices, please contact our Technical Service Team in your region.

Colanyl grades are aqueous pigment preparations without binder. They are based on non-ionic and/or anionic wetting and dispersing agents. Flexonyl is a range of aqueous pigment preparations which can easily be mixed in water-based systems. Cosmenyl pigment preparations are readily pumpable and flowable aqueous dispersions.

The listed products from the Cosmenyl, Colanyl and Flexonyl ranges are manufactured without any ethoxylated alkyl phenols (APEO).

## COLORANTS IN COMPLIANCE WITH SPECIFIC US REGULATIONS

| COLOR   | PRODUCT DESCRIPTION              | COLOUR INDEX NAME | C. I. NO. | BLEED FASTNESS (90°C, 5 H) | PIGMENT LIMITATIONS (W / W) |
|---|----------------------------------|-------------------|-----------|----------------------------|-----------------------------|
|  | <b>COSMENYL OXIDE YELLOW 100</b> | Pigment Yellow 42 | 77492     | 5                          | None                        |
|  | <b>COLANYL OXIDE RED B 133</b>   | Pigment Red 101   | 77491     | 5                          | None                        |
|  | <b>COLANYL RED D3GD 532</b>      | Pigment Red 254   | 56110     | 4-5                        | 1%*                         |
|  | <b>COLANYL RED E3B 130</b>       | Pigment Violet 19 | 73900     | 5                          | None                        |
|  | <b>COSMENYL BLUE OC 100</b>      | Pigment Blue 15:1 | 74160     | 5                          | None                        |
|  | <b>COLANYL BLUE B2G 131</b>      | Pigment Blue 15:3 | 74160     | 5                          | None                        |
|  | <b>COSMENYL GREEN OC 100</b>     | Pigment Green 7   | 74260     | 5                          | None                        |
|  | <b>COSMENYL BLACK 100</b>        | Pigment Black 7   | 77266     | 5                          | 2.5%*                       |

\* Total content of the pigment in the final rubber article not to exceed the given percentage.

# GENERAL REMARKS

The information refers to the colorants. However, the final confirmation of the observation of the limits generally can only be obtained by testing the final articles. In case of pigment preparations, the Color Index data relate to the base pigments.

Due to several local regulations, we can give a guideline on technical suitability of the product only. We recommend observing local legislation before finally using the colorants.

## PURITY

All products meet specific strict purity requirements regarding heavy metal content, primary aromatic amines etc. Some products are additionally microbiologically specified or could be delivered with microbiological specification on request.

### Tests for EN 71-3 - Determination of the heavy metal trace impurities

Regarding Directive 2009/48/EC (Toy Safety Directive) we have determined the total contents (after acid digestion) of the heavy metals.

The observation of the heavy metal limits shown in the table at the right applies to products whose chemical structure does not contain a heavy metal molecule.

Therefore – unless otherwise noted – the products mentioned in this brochure meet the following purity criteria based on regular analytical tests:

The maximum total content of the following elements is:

| ELEMENT  | PPM   |
|--|-------|
| Aluminum   | 1000  |
| Antimony   | 100   |
| Arsenic  | 10    |
| Barium   | 100   |
| Boron  | 250   |
| Cadmium  | 5     |
| Chromium   | 10    |
| Cobalt   | 25    |
| Copper   | 1000  |
| Lead   | 50    |
| Manganese  | 1000  |
| Mercury  | 25    |
| Nickel   | 100   |
| Selenium   | 100   |
| Strontium  | 1000  |
| Tin  | 1000  |
| Zinc   | 1000  |
| Primary aromatic amines  | 500*  |
| Aromatic amino sulfonic acids (if appropriate)                       | 500** |
| 4-aminobiphenyl, benzidine 2-naphthylamine, 2-methyl-4-chloroaniline | 10    |

\* Calculated as aniline

\*\* Calculated as aniline sulfonic acid





By observation of these stringent criteria, being total contents, the requirements specified in the BfR Recommendation IX and European Resolution AP (89)1 relating to the ionogenic heavy metal trace impurities and free primary aromatic amines in colorants are automatically met.

Colorants which according to their chemical structure do contain a heavy metal, i. e.

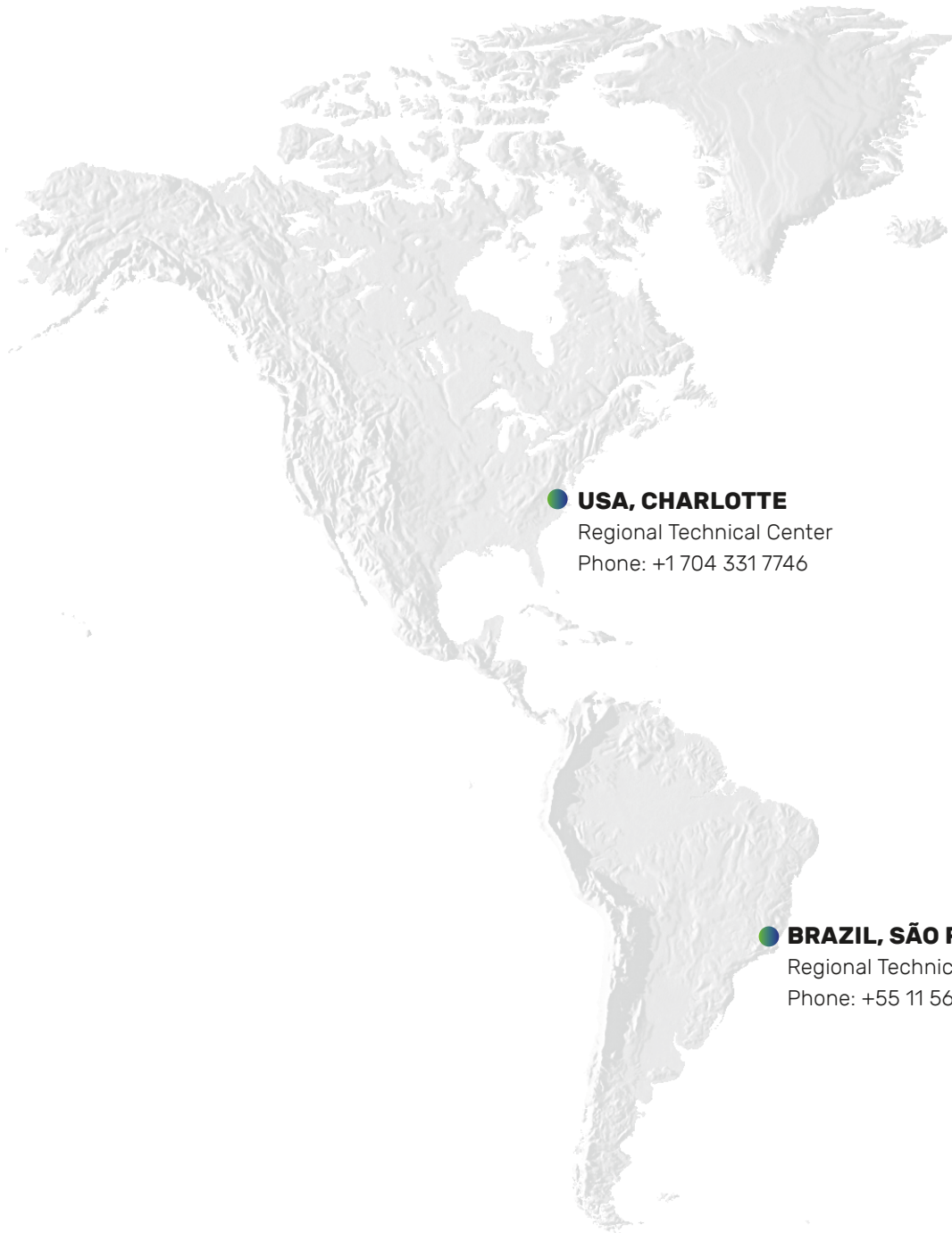
- Copper phthalocyanines pigments
- Cr (III) complexes
- Cobalt complexes
- Nickel complexes

also meet the above heavy metal limits – except for the complexed heavy metal. For complexed heavy metal atoms the ionogenic content has to be considered on a case by case basis. In certain cases, other heavy metals may be present as impurities in slightly increased amounts. For these heavy metals, the ionogenic content has to be considered as well.

For single products based on non-complexed organic pigments or dyes, however the ionogenic content has to be considered for certain heavy metal(s) due to the manufacturing process.



Heubach's Technical Service Team will assist you if more information is required.  
Please contact our Technical Application Centre in your region:



● **USA, CHARLOTTE**  
Regional Technical Center  
Phone: +1 704 331 7746

● **BRAZIL, SÃO PAULO**  
Regional Technical Center  
Phone: +55 11 5683 7576



● **GERMANY, FRANKFURT**

Global Technical Center  
Phone: +49 69 3 05 81799

● **CHINA, SHANGHAI**

Regional Technical Center  
Phone: +86 21 2248 3214

● **INDIA, AIROLI**

Regional Technical Center  
Phone: +91 22 7125 121

● **MALAYSIA, SHAH ALAM**

Regional Technical Center  
Phone: +603 5101 2705

● **SOUTH AFRICA, JOHANNESBURG**

Regional Technical Center  
Phone: +27 11 041 0203

**Sudarshan Chemical Industries Limited**  
**Registered Office**

Eleven West Panchshil, 7th Floor, Survey No. 25,  
Near PAN Card Club Road, Baner, Pune 411069 (India)

Board line: +91-20-68281200

[www.sudarshan.com](http://www.sudarshan.com)

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