



# Masterbatch



 The logo for CINKARNA Masterbatch, where the letters are composed of a grid of colored dots. The colors transition from blue on the left, through green, yellow, and orange, to red on the right.

We bring the colour to plastic



# Company Profile

Cinkarna Celje d.d. is a company with 150-year long tradition of continuous business. Established in 1873, Cinkarna Celje was originally engaged in metallurgy, but after 1968 chemical processing became the company's primary activity, and today its core business is oriented towards the production and marketing of titanium dioxide pigment.

Cinkarna Celje is one of the largest chemical-processing companies in Slovenia. It is a joint stock enterprise employing over 700 people and generating more than 200 million EUR in sales revenues per annum, with exports into demanding global markets accounting for more than 90 percent of this total.

We have more than 50 years of experience in the production of titanium dioxide pigment and the usage of pigment in different kinds of our own products (anticorrosion coatings, powder coatings, etc.) among which are also masterbatches. We started with the production of masterbatches in 1999 and this division has been increasingly gaining importance lately.





# Environmental and Social Responsibility

In Cinkarna Celje, we are well aware of the impacts exerted on environment, therefore we constantly invest into upgrading technological processes in accordance with best available techniques in order to reduce any negative environmental impacts. Providing for safe and healthy conditions of our employees along with offering them constant education is our great concern.

We are **ISO 9001, ISO 14001, ISO 45001 and ISO 50001 certified company with highest production standards.**

Additionally, our production unit Kemija Mozirje successfully passed the external assessment under the **EMAS Directive** and we are proud of the **environmental friendly production of masterbatches.**



# Research and Development

We think about the future every day. As a chemical processing company, we made it our challenge for the 21st century to develop titanium dioxide in special forms to be upgraded to final products with high value added.

In tackling this challenge, **we are committed to preventing any negative effect on the environment, safety, and health.**



# Specialists in white

We produce different types of **white masterbatches**:

- **CC Master** – masterbatch, based on low-density polyethylene (**LDPE**)
- **CC Master** – masterbatch, based on linear low-density polyethylene (**LLDPE**),
- **CC Master** – masterbatch, based on polypropylene (**PP**),
- **CC Master** – masterbatch, based on polystyrene (**PS**),
- **CC Master** – masterbatch, based on ethylene-vinyl acetate (**EVA**).

In our production of masterbatches we are using the latest technology (by renowned European producers) and **in-house fabricated titanium dioxide pigment with special surface treatment** which provides excellent flow characteristics and good dispersion of white masterbatches in final products.

**The following plastic processes make use of our white masterbatches:**

- Blown film extrusion,
- Injection moulding,
- Injection blow moulding,
- Profile and sheet extrusion,
- Thermoforming,
- and other extrusion processes.



# Advantages of our white grades

- **High and constant quality** of our white grades.
- **Improved dispersion** of titanium dioxide pigment which is completely distributed through a polymer matrix.
- **Improved dilution** of a masterbatch – excellent and easy distribution of the masterbatch within the polymers during the colouring of plastics materials. Masterbatch because of a specially treated titanium dioxide flows better and quicker – the melt polymer mass is better homogenized.
- **Excellent pigmentation characteristics** and easy processability.
- Exceptional colour performance - **improved whiteness and gloss** of final products.
- **Improved strength** of final products.
- **Lower processing temperatures.**
- **Higher efficiency and higher output.**
- **Less cleaning.**
- **Less die build ups.**

**We manufacture highest quality products** and therefore our masterbatches with higher titanium dioxide concentrations are especially suitable for:

- **high quality films,**
- **thinner and co-extruded films,**
- **high gloss films with an excellent surface for printing.**



# We colour your rainbow

We also produce tailor-made **colour masterbatches** according to RAL, Pantone, NCS, sample etc. Every year we develop numerous custom-made masterbatches and compounds to meet the demands of specific projects for our customers (UV stability, temperature stability etc.), not only meeting their needs but exceeding their expectations.

We use our own expertise in the field of colorimetric with the help of the latest technology which is installed in our laboratories. Our dedicated team of experts will be glad to answer any of your questions so please contact us. We will strive to deliver to you top quality solutions through high quality masterbatches and support. Your success is also our success.

We put great effort to shorten delivery periods as much as practicable for all CC masterbatches, as well as prompt and fast production of other tailor made colour shades.



# Quality

A constituent part of our company management is ensuring quality. It is based upon the vision of strategy growth and key strategic goals focused on satisfying the owners, customers, employees, and the environment where we take an active part in.

Our laboratories are well equipped with high tech machineries and we can perform many precise analyses:

- SEM (Scanning electron microscope, Carl Zeiss NTS GmbH, Germany),
- Synchronous Thermal Analyzer (DSC-TGA),
- Fourier Transform Infrared (FTIR),
- Universal Testing Machine Zwick Roell,
- Optical microscope,
- Quantitative analyses,
- UV – Vis spectrophotometer (Agilent - Cary 300 UV-Vis spectrophotometer equipped with an integrating sphere (Varian Inc., USA),
- Filter pressure test,
- Film inspection,
- MFI.

**All our masterbatches are suitable for food contact and are in compliance with the latest Commission Regulations on plastic materials and articles intended to come into contact with food.**



# Contacts

**Tihomir Djuričić – sales**

tel.: 003863/427-6222

e-mail: [tihomir.djuricic@cinkarna.si](mailto:tihomir.djuricic@cinkarna.si)

**Andraž Brečko – sales**

tel.: 003863/427-6388

e-mail: [andraz.brecko@cinkarna.si](mailto:andraz.brecko@cinkarna.si)

**Marta Munda – technical information**

tel.: 003863/837-0908

e-mail: [marta.munda@cinkarna.si](mailto:marta.munda@cinkarna.si)

**Boris Videmšek – technical information**

tel.: 003863/837-0906

e-mail: [boris.videmsek@cinkarna.si](mailto:boris.videmsek@cinkarna.si)

**Locations****Company Headquarters**

**CINKARNA, kemična industrija Celje, d.d.  
(Cinkarna Celje d.d.)**

Kidričeva 26,  
3001 Celje,  
Slovenia  
[www.cinkarna.si](http://www.cinkarna.si)

**Production Unit****Kemija Mozirje**

Ljubija 11,  
3330 Mozirje,  
Slovenia

