

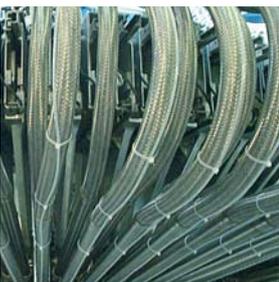
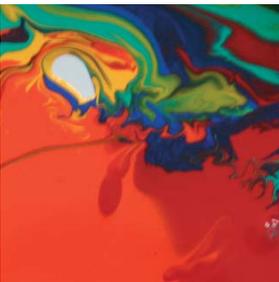
Beckery Mix

Colours of the Rainbow...



...and much *more!*

Becker Industrial Coatings



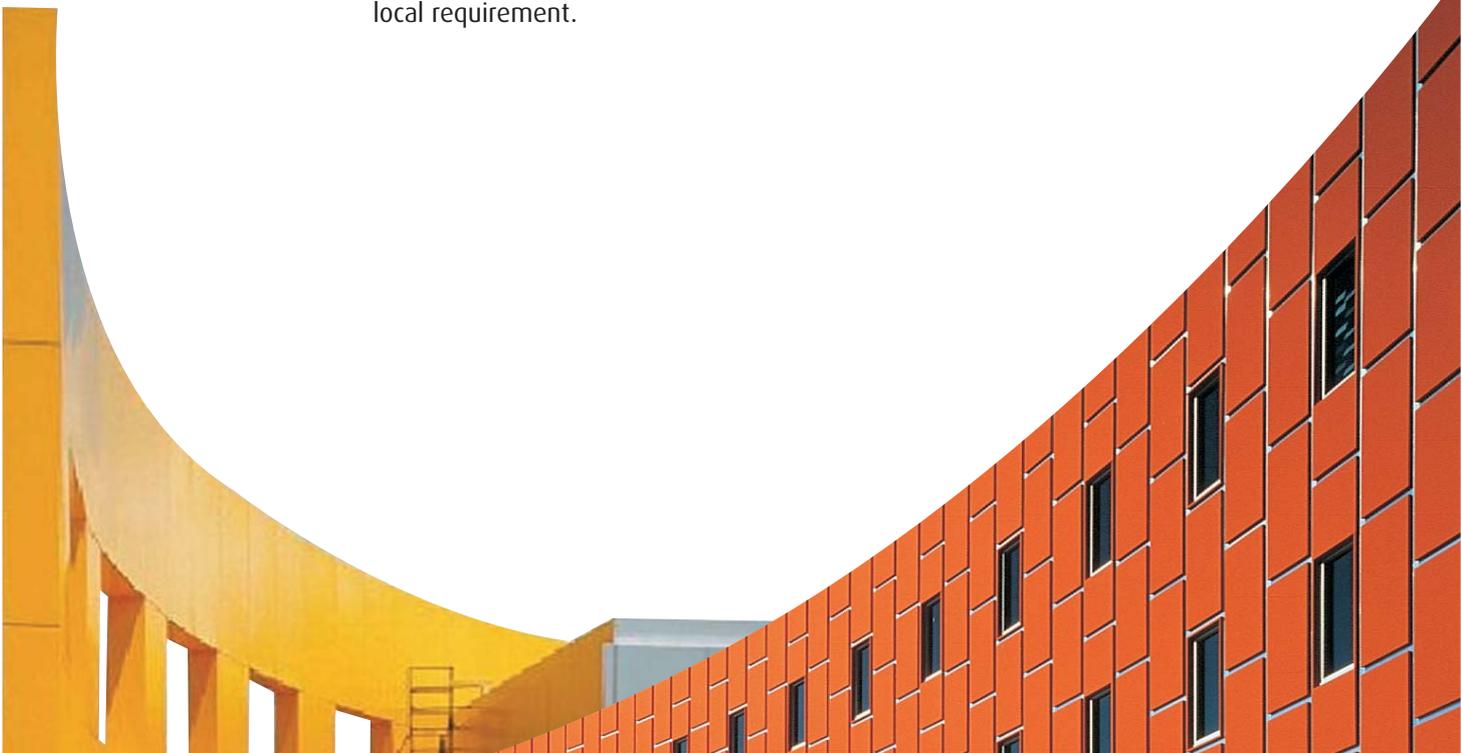
Becker Industrial Coatings has always been committed to colour, decoration and image.

Besides new finishes and new colours continuously being developed to provide the best answer to the customers' needs, **Becker Industrial Coatings** has developed the **BeckryMix** concept. This mixing system allows rapid delivery not only of sample colour matches, but also commercial batches of industrial paints from our various ranges, like **BeckryPol, BeckryTech, BeckryFluor, BeckryPlast, etc.**

Challenging the traditional paint manufacturing process and its six steps (pre-mixing, grinding, letdown, adjusting, filtering, filling), this special concept gives our customers a competitive edge due to the quick delivery of coated coils, as well as the unique advantages of the reduction of paint usage costs, the recycling of "left-overs", and the choice of a wide range of pigments, including specific chrome- and lead-free systems.

BeckryMix is the answer to the pressure of just-in-time deliveries, stock reduction and addressing specific customers' needs.

BeckryMix is currently used for manufacturing Becker's paints for a number of coil coaters throughout the world either as a fully integrated and automatic system, or as a simpler but equally efficient manual system, depending on the local requirement.



The BeckryMix concept

BeckryMix Concept

BeckryMix is a modern concept used for manufacturing and colour matching paints. It involves specially developed intermediates and monopigmented bases, in combination with dedicated software for the paint formulation and process management.

From one concentrated set of bases, it is possible to manufacture a range of paints matching the customer's performance requirements.

BeckryMix's advantages

Thanks to its unique dedicated software, BeckryMix allows the customer:

- A very fast supply of ready-to-use paint in tailor-made colours at his own facilities,
- To produce the exact quantity needed for operation, avoiding unnecessary stocks of paint,
- To produce very low quantities of paint with no extra-charges for small batches.

BeckryMix installation can be precisely designed to the customer's needs in terms of size and product ranges.





How it works

BeckryMix the main ideas

- All components are in liquid form, easy to store and to distribute, due to the optimized viscosity,
- The resin used to make the monopigmented concentrated base is selected because it corresponds to foreseen durability requirements,
- The pigments are also chosen for their quality, enabling us to reach maximum performance objectives,
- The pigment content of the bases is as high as possible, in order to reduce the volume in storage,
- The resin added to complete the formulation is either identical to the base resin, or entirely compatible, enabling us to produce mixes of any proportion,
- There are always two additional components per product type. The first is a transparent varnish to obtain saturated colours. The second is a white base used for whites, pastels and moderately saturated products,
- The mixing procedures are defined with precision, to respect the formulation parameters of each manufactured product.



BeckryMix Colour Production

There are two main scenarios. In the first, the required shade already exists and has been produced before. In this case we simply copy the mix, adapting the pre-defined proportions to the quantity that needs to be manufactured.

In the second scenario, the shade is new and a formula needs to be developed. The components and quantities are determined according to the type of paint and the shade of paint to be produced. Becker Industrial Coatings has developed unique BeckryMix software to manage the two scenarios. A colour computer has a detailed database of the colorimetric characteristics of each and every BeckryMix component. The computer system can be used to check and adjust the shades manufactured; it is also used to help calculate the balance of formulas and to memorize existing "recipes".



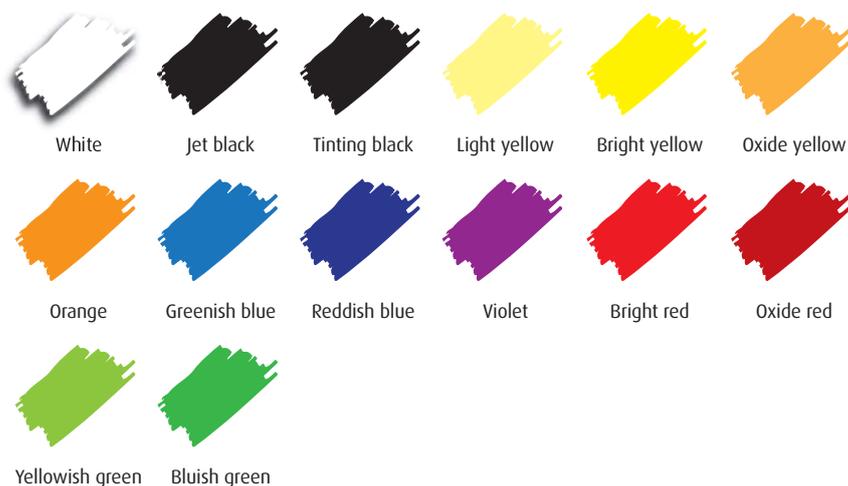


Some examples of BeckryMix products

The **BeckryMix Standard Polyester** enables us to produce different finishes: standard polyester gloss, standard polyester satin finish, anti metal marking matt polyester... and more, depending on customer requirements. If set up on a coil-coating site, the finished product can be delivered to the customer in just a few days, including coating, slitting and shipping operations.

The **BeckryMix HD Polyester** produces a range of high durable polyesters, as well as standard polyester, depending on the chosen intermediates.

Finally, the **BeckryMix PVDF** and **Plastisol** ranges act as the perfect complement to an extensive range of possibilities.



Equipment

The process is based upon the mixing of 3 to 6 components.

The equipment used depends on the quantity in weight and volume of the topcoats to be produced. To produce large quantities and large numbers of repeat batches can require complex automatic equipment, while small quantities and small numbers can be produced with a less sophisticated manual installation.

In both cases, the equipment allows the user to:

- Store the components (pigmented bases, intermediates, additives...) and stir them before use,
- Weigh the components precisely,
- Mix the components thoroughly and efficiently.





Services provided

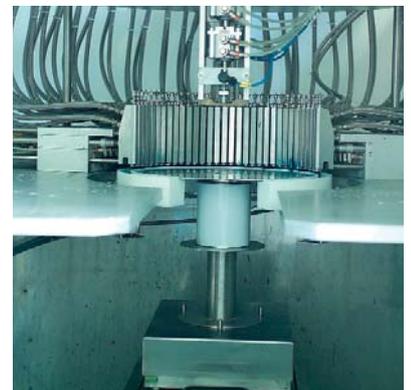
If a customer wishes to set up a **BeckryMix unit** on their site, **Becker Industrial Coatings** can assist in the following ways:

- Help to define the choice of the equipment, products and finish,
- Train staff on how to measure the colours, how to use the equipment and the colour measurement software for colouring and mixing,
- Help in starting the **BeckryMix unit**,
- Supply the database for the colour formulating software,
- Make available mixing formulas for the customer's current colour range, as well as standard colours available on the market eg. RAL colours and NCS colours,
- Establish colours on demand from a sample or colour reference from standard colour charts,
- Telephone support and remote on-line updates and problem solving.

Our experience

Becker Industrial Coatings has over 15 years industrial experience of producing paints through the **BeckryMix process**.

This experience has proven the value of **BeckryMix** in bringing practical solutions to the problems of reduced delivery time and the division of needs.





BeckryMix and the environment

As a leading manufacturer, the **Becker Group** maintains a commitment to protecting the environment and minimising the environmental impact of its operational process.

Becker Industrial Coatings has demonstrated substantial advantages of the **BeckryMix unit**:

- The closed design of this manufacturing concept reduces the risk of the operators being exposed to solvent fumes, pigment dusts and other hazardous components.
- **BeckryMix** produces the exact quantity required for each coil coated metal order.
- A specific colour range, free from pigments containing harmful lead and chromium chemicals, is available and already being used on an industrial scale in a number of countries.
- Reworking of redundant colours or "waste" paint is possible. We work closely with our customers to address this issue when undertaking any new installation project.



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