

Marabu-ColorFormulator MCF

Marabu-ColorFormulator (MCF) is a color-matching system consisting of a spectrophotometer — stationary or portable — together with software specifically designed for screen printing. The MCF software operates with the simplicity and versatility of Windows® and is, therefore, easy to learn; the experienced colorist as well as the beginner, are equally supported. The program is complete with an extensive list of Marabu printing ink databases. With the MCF, optimum color formulas can be calculated for opaque, translucent, as well as transparent shades.

Measure the Color Copy

The user is guided step-by-step through the entire process. Prior to measuring, certain parameters such as mesh count, ink film thickness, and the desired illuminant, can be pre-selected. (The color sample is then measured with the spectrophotometer.)

Following the sample trial, the substrate (color) is recalled from the database or can be re-measured.



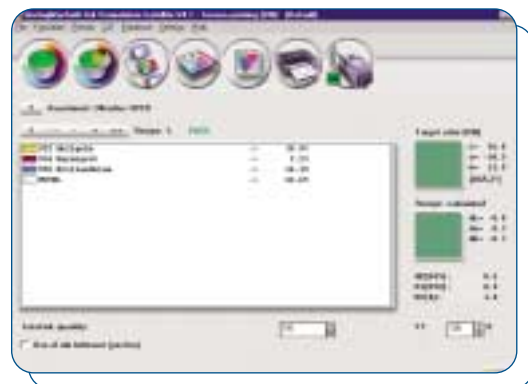
Selection of Basic Shades

When calculating the formula, it is possible for the computer to select from all basic shades, or the experienced user can select or deselect individual shades. Another option is to define basic shade groupings, e.g. a group with highly fade-resistant shades only. Finally, a maximum number of colorants within each calculated formulation can also be specified.



Calculate the Mixing Formula

Mixing formulas are calculated quickly and precisely. They can be sorted according to minimum color deviation, lowest costs, number of basic shades or smallest metamerism. The color deviation to be expected between color copy and calculated formula is both indicated in comparative color fields as well as in DE-values.



Correction Option

Via the correction program, all factors which might influence the print-proof, such as film thickness, squeegee pressure and squeegee speed, can be corrected. MCF either calculates an additional quantity to the available mixture or generates a new formula. In practice, a very good color match is achieved after the first correction in nearly all cases.

The determined formula can then be stored in the database under the description of our choice enabling recall at any time.

Utilization of Residual Ink

MCF offers the possibility to re-use residual ink from previous mixtures. A print-proof of the residual ink is measured via the spectrophotometer and by entering the existing quantity stored in the database.

Available Measuring Hardware

The Marabu-ColorFormulator MCF color-matching system can be supplied with either a stationary color-measuring system or a portable system. The measuring aperture is 10mm in diameter for both.

Marabu-ColorFormulator MCF-H

This portable hand-held spectrophotometer, with a measuring geometry of $d/8^\circ$, allows you to carry out measurements directly from the printing machine. You can store up to 500 color samples in the spectrophotometer. A sample from the running production can



MCF-H

be compared to a stored sample, having the color deviation directly shown on the unit's display.



MCF-S

Marabu-ColorFormulator MCF-S

A compact, stationary spectrophotometer which can be coupled with the MCF-software. This system also has a measuring geometry of $d/8^\circ$ (like the portable hand-held model) and operates with a spectral resolution of 10nm.

Advantages

- Easy operation, no special previous knowledge required
- Mesh count and color of the substrate can be specified
- Calculate mixing formulas for opaque, translucent, and transparent shades quickly and accurately
- Avoids machine down-time
- Calculate ink costs
- Easy storing and recall of formulas
- Better residual ink usage
- Direct support within the program
- Databases for Marabu Screen Printing Inks are included, and are regularly updated
- Can be extended with an additional module for direct connection to a scale

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