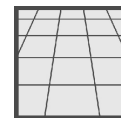


DECOFLUX DP 1

Basic medium for the production of inks for the digital printing technology



Chemical basis:

Preparation of polymers in solvents

Characteristics:

Solubility: water-insoluble
Density (20 °C): approx. 0,86 g/cm³
Viscosity (25 °C): approx. 24 mPas

Shelf-life / Packaging:

12 months if stored properly
Drums of 25 and 850 kg

Application:

DECOFLUX DP 1 is a standard milling medium for the production of inks for the digital printing technology. The required ratio of solids to medium must be determined and adjusted by the user.

To adjust the final viscosity and printing properties, the additives of our DECOFLUX DP R series can be applied.

Required additives:
Pigments

DECOFLUX DP 1	Basic medium
DECOFLUX DP R 6	Auxiliary for the adjustment of ink viscosity - low
DECOFLUX DP R 12	Auxiliary for the adjustment of ink viscosity - medium
DECOFLUX DP R 75	Auxiliary for the adjustment of ink viscosity - high

Standard inks are usually based on two different pigment concentrations.

Black and Blue inks contain approximately 35 % pigment.

Beige, Pink, Redbrown, Yellow, Orange and White contain approximately 45 % pigment.

The viscosity range of the ready-to-use ink is approx. 30 - 35 mPas at 20 °C and 12 - 16 mPas at 45 °C.

The above mentioned values need to be adjusted according to the used pigments, the desired color intensity and in certain occasions also the printer specifications.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

DECOFLUX DP 1

As a starting point for the development of inks we recommend a blend of the basic medium DECOFLUX DP 1 with DECOFLUX DP R 12 and the pigment.

For the 35 % pigment version, we recommend the following ink formulation:

35 % Pigment
25 % DECOFLUX DP 1
40 % DECOFLUX DP R 12

For the 45 % pigment version, we recommend

45 % Pigment
30 % DECOFLUX DP 1
25 % DECOFLUX DP R 12

After completing the milling process, the final viscosity should be adjusted with the help of DECOFLUX DP R 6 , DECOFLUX DP R 12 or DECOFLUX DP R 75 .

In case ink parameters like density, viscosity or sedimentation stability are not in line, the starting blend could be modified by replacing parts of the used DECOFLUX DP R 12 with DECOFLUX DP R 6 (reduce viscosity) or DECOFLUX DP R 75 (increase viscosity).

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