

AQUALOPE

TECHNICAL DATA SHEET

Aqualope is a highly pigmented concentrate system, specially developed for printing on envelopes.

Aqualope can print on coated and uncoated paper.

The **Aqualope** system is suitable for squeeze printing and doctor blade printing units.

Printing & Adjustment

Depending on machine requirements, the printing viscosity may be between 15 and 25 seconds in a DIN 4mm cup. Viscosity is reduced by adding maximum 10% water. Any further lightening must be achieved using a blend in order to guarantee the relevant properties.

Recommended Dilution

To achieve the desired print viscosity and/or drying speed we recommend the following dilutions:

Thinner: Water

To achieve the desired print viscosity add up to a maximum of 10% water.

If the colour strength of the ink is still too intense, any further dilution must be carried out with varnish. This ensures the correct properties of the printing ink.

Accelerator: Ethanol/Water: 80%/20%

Quantity: 3% - 10%

For faster drying. We recommend mixing the solvents before adding them to the printing ink under constant stirring. It is important to note

| Benefits | Applications |
|-----------------------------|----------------|
| High pigment concentration | Uncoated |
| enables maximum flexibility | envelope paper |
| Good runnability | Coated |
| | envelope paper |
| Good drying properties | |
| Easy clean effect | |
| Good press stability | |
| Phthalate-free | |
| | |

| Printing Unit | Printing Viscosity |
|--------------------|--------------------|
| Chambered doctor | 15-17 seconds (DIN |
| blade, open doctor | 4mm) |
| blade | |
| Squeeze printing | 15-25 seconds (DIN |
| - | 4mm) |

that the addition of pure ethanol is prohibited. This may result in the ink clumping together or thickening. The printing ink may become unusable. Too much may cause the ink to dry on the plate and clog up halftones and fine scripts.

Retarder: HRL

Quantity: 3% - 5%

For slower drying. Too much may induce colour smearing, colour transfer and contamination on machine parts.

Additives:

Antifoam agent HEE (to spray onto the ink)

Quantity: maximum 0.2%

Antifoam can be sprayed undiluted onto the surface of the printing ink with the aid of an aerosol can (as used for flower spraying). After spraying let the anti-foam work into the surface for a short time and then mix well. It is important to note that the anti-foam should be well mixed into the printing ink. Too much antifoam may induce streaks, pin-holes and further defects in the print.

Wax (for increased rub resistance)

Quantity: 3% - 5%

Should the rub resistance need to be improved, it is possible to add 3% - 5% wax to the ink. Add the wax to the printing ink slowly under stirring and mix well. Too much may worsen the rub resistance or cause too high slip values and smearing of the ink.

Cleaner: ESC

Dilution: 1:6 depending on the amount soiled.

For cleaning the printing units, halftone cylinders and printing plates. For very soiled parts, it is possible to clean them by soaking in ESC.

Comments

We guarantee the stability of our products for 12 months when unopened, in original packaging and stored under normal conditions. Shake or stir well before use.