HYDROFILM ACE

Water-based ink series
designed for film printing

FlintGroup
Narrow Web

Hydrofilm ACE
Properties

- Adhesion to wide range of materials
- Excellent color strength
- Good drying properties combined with press stability
- Clean printing with better ink lay down
- Optimum print viscosity, excellent pH and viscosity stability

Hydrofilm ACE
Portfolio

- Process colors
- Pantone Basic colors
  - HMCXXXXX Conventional Strength
- Extender
  - HMC00061 as needed to reduce color strength

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Hydrofilm ACE

Density – Process inks & others

- Process Printing (HMC Process)
  - 4 color densities matched with 240 – 320 l/cm; 1.5 – 4.0 cm^3/m^2 anilox
- Line & solid printing (HMC Pantone inks)
  - Pantone colors matched with 140- 180 l/cm; 5 – 6.0 cm^3/m^2 anilox
- Compatible with most of Flexo plates available in market

Hydrofilm ACE
Printing Parameters

- Process Printing: up to 150 m / min.
- Hydrofilm ACE remains open with sharp dots over long runs as long as pH is maintained between 9.0 and 9.5
- Temperature of the dryer should not be lower than 50°C (80° F) and it is important to maintain good air flow in order to prevent humid air from remaining in the dryer. Presses equipped with both IR and hot air dryers may allow for higher press speeds

Hydrofilm ACE

Printing Parameters contd.

- Printing Presses
  - Inks will work on all existing narrow web Flexo presses.
- Doctor Blades / Plates
  - Doctor blades are strongly recommended.
  - Chambered or conventional blades can be used.
  - Anilox rollers with a cell angle of 60° will improve the transfer of ink from cell
- CLW00001 is *recommended* Cleaner

Hydrofilm ACE

Works on several PS Film

- TC-PP Silver Raflatac
- TC-PP-3 Raflatac
- TC-PE and PE Raflatac
- PE White Fasson
- Fasclear Fasson
- Primax Fasson
- PP TC Fasson
- PP60 Fasson
- PE Silver Fasson
- PVC Matt Fasson
- Raflex Raflatac
- TC-PP Ritrama
- PE Matt Fasson
- Transp PE Panoval
- Polyester White Raflatac

Waterbased flexo

Material	Hydrokett	Hydrofilm	Thermokett
PE	••	•••	•
PE TC	•••	•••	••
PP	•	•••	-
PP TC	••	•••	•
PVC	•	•••	-
PET	•	•••	-
BOPP	-	•••	-

••• Highly recommended •• Recommended • Limited use - Not recommended

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Hydrofilm ACE

- To get optimal adhesion
  - Follow recommendations from substrate supplier
  - Surface tension needs to be above 38 dyne/cm
  - Use corona treatment if needed
  - If top coated substrates are corona treated water resistance can become bad
  - As flexo is a “kiss” printing process is it very important to optimize the combination of anilox roller, plate and tape to get the optimal lay down which will enhance the adhesion
  - Optimal condition for humidity is 20-40%
  - It is very important to see to that the ink is completely dried as this affects the adhesion and water resistance

Hydrofilm ACE

Combination printing

- Hydrofilm ACE can be used in conjunction with other printing processes like UV Rotary screen.
- This ink can also be printed in combination with other Flint Group Narrow Web water base ink systems.
- When printing over screen inks, Flint Group Narrow Web recommends ”Combiwhite” USW90002, designed for over printing.
- Hydrofilm ACE system can be overprinted with solvent-based, water-Based and UV coatings.

Hydrofilm ACE

All you need for printing synthetic substrates

- Excellent adhesion to a wide range of materials
- Excellent color Strength and press stability
- Easy to use and low maintenance
- Good drying properties
- Available press ready at optimal viscosity
- Higher densities allows to print with finer anilox and less ink usage
- Excellent for combination printing with other Flint Group Narrow web Water-based inks, CombiWhite, UV Flexo inks, Water-based and UV coatings


HYDROFILM
ACE
Please call your local Flint Group Narrow Web representative for Samples, Technical Literature and Material Safety Data Sheets
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