

FD K-HS AD Process

Technical Data Sheet

Description

FD K-HS AD series is UV curable ink for commercial printing on non-absorbent substrates, which has been developed for the H-UV press system created by Komori Corporation. The combination of FD K-HS AD and the H-UV press provides a high quality print finish along with good printability and excellent adhesion on variety of non-absorbent substrates, reducing the electric energy consumption of UV lamps. This system consumes approximately 1/4 of electric energy compared to regular a UV printing system.

Features and Advantages

1. Less UV energy consumption compare to regular UV print system.
2. Excellent adhesion on various types of substrates.
3. Excellent ink/water balance for consistent print quality.
4. Less damages of substrates by heat generation from UV bulb due to IR cut system and less energy requirement.

Application and Substrates

Printing on non-absorbent substrates. Metalized paper, synthetic paper, PP, PET and PVC.

Pre-adhesion test is required before commercial use. Non-absorbent substrates tend to lose ink receptivity by aging due to plasticizer migration, deactivation of surface treatment, etc.

Please contact your ink supplier for further information.

Packaging

3kg black plastic can

*Due to fast curing property of this ink, we do not supply in metallic drums to avoid the risk of ink gelling problems in drums and/or transportation tubes.

In the Press-room

Sunlight control: Please avoid direct sunlight on FD K-HS CP inks. We recommend putting 'UV-cut' film on windows and using 'UV-cut' fluorescent light in the press-room to prevent the ink curing in cans and in ink duct.

Roller conditioning: Roller conditioning is the mandatory process when you run a new press with new rollers and/or you replace old rollers to new rollers, in order to have ideal curing and print results. If you run both conventional and UV jobs on your press with hybrid rollers, roller conditioning before switching conventional to UV gives stable print results. FD PT Medium White is recommended as roller conditioner.

Roller conditioning

1. Clean rollers with suitable wash solvent
2. Apply FD PT Medium White on rollers (approx. 100g per one unit)
3. Idling roller to spread material on whole rollers for several minutes
4. Stop idling and wait for several hours (the longer the better)
(Additional UV reducer makes conditioning more effective)
5. Clean rollers with suitable wash solvent
6. Start commercial prints, after the wash solvent is completely volatilized.

Storage

FD K-HS AD inks are stable for 6 months under cool condition, below 25 degree C, and in the dark storage. We recommend to store at temperatures between 5 to 20degreeC for longer shelf-life.

Additives

Tack Reducer: FD Reducer OR (1kg tin)

Add maximum 3% of FD Reducer OR into inks, when facing problems, of ink transfer, paper picking, edge-picking etc, due to cold press temperature, weak surface strength and rough surface of substrates.

Please consult with your ink supplier for further assistance.

Related products

Roller conditioner: FD PT Medium White (1kg tin can)

This is formulated for regular UV mixing medium white. It is good for roller conditioning to obtain stable curing and print quality.

FD K-HS Resistance Table

Colours	IWS	Alcohol	Solvent	Alkali
FD K-HS AD process				
Yellow	5	-	+	+
Magenta	5	+	+	-
Cyan	8	+	+	+
Black	8	-	+	+