

Prima FS404 ASH

Fountains

FOGRA approved fountain solution additive for alcohol reduction printing with hard water

Pro 20 Litres: **Art. code** P878J
Pro 2 x 200 Litres: **Art. code** P879L

Prima FS404 ASH is a gum free fountain solution additive for sheet-fed offset presses and is suitable for alcohol reduction. Contains highly efficient surface tension reducers and wetting agents to replace the use of alcohol. It has a balanced pH and by virtue of its powerful wetting capability maintains an excellent ink/water balance at reduced water feed settings. This fountain solution additive is FOGRA approved and can be used with 4-8% alcohol.

Working instructions

- Recommended dosage:
2 - 3% (depending on the hardness of water)
Recommended alcohol dosage : 4 - 8%
- Mix the fountain solution and water at the desired concentration (reference mix). Measure the pH and the conductivity of your reference mix and working solution.
pH latitude : 4,8 - 5,2
The optimum dosage will depend on the type of press, dampening system and water used on the press. For accurate dosing control the use of a conductivity meter is recommended.

Remarks

- Thorough cleaning of the dosing and circulation system is highly recommended before using freshly mixed solution.
- Water quality can have a strong effect on the printing quality. A total water hardness of 4-12° dH (degrees German hardness), is regarded as suitable for offset printing. Hard water increases the pH of the fountain solution. If the total water hardness is above 18°dH, use of water conditioning technology should be considered.
- Start with 4% IPA and adjust the press conditions (ink/ water balance). Increase IPA concentration until the optimum working level is reached. The lowest possible concentration depends upon the type of dampening system, the material and surface properties of the fountain rollers and the type of ink.

Waste

Collect if possible, send to authorized disposal centres, in accordance with local and national regulations.

Main characteristics

- IPA dosage between 4 - 8%.
- Suitable for all sheet-fed presses
- Effective for hard water.
- Maintains a stable pH.
- FOGRA approved for Heidelberg, MAN Roland and KBA presses.
- Contains corrosion inhibitors.
- Provides faster, cleaner start-ups, therefore giving less paper wastage.
- Allows a thinner and more even film of dampening solution across the rollers and the plate.

Physical properties (Concentrated solution)

Appearance	Yellowish
Density	1,089 kg/Litre
pH (25°C)	4,67
Conductivity (20°C)	17,8 mS/cm

Safety

Read MSDS before using this product.

Storage

- Store at room temperatures in a dry, well ventilated area.
- Keep away from heat and direct sunlight.
- Keep the containers closed.
- Shelf life: 36 months from date of manufacture.

Remark: soft to medium hard version

Version available for use with soft to medium hard water: Prima FS404 AS

Pro 20 Liter: **Art. code** P486K
Pro 2 x 200 liter: **Art. code** P487M

Agfa Graphics plate compatibility

Digital plate technology									
Thermal									
Azura TS	Amigo TS	Thermostar P970	Thermostar P970 baked	Energy Xtra	Energy Xtra baked	Energy Elite	Energy Elite baked	Energy Elite Pro	Energy Elite Pro baked
✓*	✓*	✓	✓	✓	✓	✓	✓	✓	✓

Visible light						
Aspire	Aspire baked	Azura-Vi	N91v	N94v	N94-VCF	Lithostar Ultra
✓*	✓	✓	✓*	✗	✗	✓

CtCP plate technology			Analogue plate technology		
Aluva P	Aluva P baked	Aluva N	Meridian P55	Meridian P55 baked	Zenith N555
✓*	✓	✓	✓*	✓	✓

* Not recommended for critical screenings (FM-screenings or AM screenings above 200 lpi)

Positioning

Product related		
Chemical composition	Contains gum	Yes
	Contains drying agent	No
	Contains corrosion inhibitors	✓
	Contains defoamers	✓
Technical properties	Typical dosage (%)	2 - 3%
	*pH value (25°C)	4,8 - 5,2
	Alcohol IPA recommended use (%)	4 - 8%
Water hardness dilution	Very soft to soft (0-8°DH)	✗
	Medium hard (8-18°DH)	✗
	Hard to very hard (>18°DH)	✓

* On demineralised water

Press related		
Application	Business forms web	✓
	Coldset web	✗
	Heatset web	✗
	Sheet-fed	✓
	Metallic inks	✗
	UV (sheet-fed / web)	✓
	Press size	Small/ Medium/Large
Dampening system	Continuous	✓
	Non continuous	✓
	Contact	✓
	Non contact	✓