

Adamas

A robust, chem-free printing plate with outstanding performance – based on patented ThermoLink technology.

Unique in its class, Adamas is a non-ablative, pre-heat-free, chem-free printing plate that doesn't require pre-heating and offers outstanding performance. This plate covers an extensive range of demanding newspaper and commercial printing applications.

Adamas. A robust, chem-free printing plate with outstanding performance.



Unbeatable performance

For those who insist on delivering supreme image quality, productivity and versatility with a minimal ecological footprint, Agfa offers Adamas – a robust chem-free photopolymer plate that does not require pre-heating and offers outstanding performance.

Adamas combines an image quality of 240 lpi Sublima, a run length of up to 350,000 revolutions with predictable sharp dot reproduction and compatibility with most thermal platesetters on the market. To unlock this plate's full potential, combine it with one of Agfa's dedicated and compact Adamas COU clean-out units.

The printing plate covers a wide range of applications in commercial printing (e.g. web and sheetfed printing, including conventional UV and H-UV/LED-UV inks).

Razor-sharp results

When you opt for Adamas, you opt for a high-contrast plate with photo-realistic image quality up to 240 lpi Sublima screening, depending on your platesetter. Thanks to its protective layer, which prevents oxidation and eliminates ablation, Adamas is a durable and low-maintenance product.





Productivity made simple

A highly sensitive printing plate, Adamas is designed to handle print runs of up to 350,000 copies. It combines fast, accurate and wide-latitude plate exposure with simple processing and robustness. In fact, Adamas allows for conventional and H-UV/LED-UV printing (with a run length of up to 75,000 revolutions) and can handle even abrasive substrates like boards. Its highlight dots are tough enough to offer a high-quality press performance even on the longest press runs.

Optimal convenience

While Adamas' robust and scratch-resistant surface allows for easy handling, its strong image contrast supports simple visual inspection and quality control, ensuring plates are mounted on press correctly. Adamas is made of high-grade aluminum, which prevents costly and time-consuming mistakes and remakes, and can be processed in office light conditions.

ECO³ innovation

Committed to sustainable innovation that targets ecology, economy and extra convenience (ECO3), Agfa aims at developing cleaner and cost-effective solutions that are easy to operate and maintain, both for chemistry-free and conventional systems.

Adamas is a prime example of this philosophy, requiring only small quantities of clean-out gum when combined with the Adamas COU clean-out series. The result? No use of water, decreased waste production, lower disposal costs and a safer work environment.



Adamas COU – dedicated clean-out units that take ecology to the next level

To unlock the full potential of the Adamas plate, it should be combined with one of Agfa's dedicated Adamas clean-out units. The compact Adamas COUs, are based entirely on sustainable innovation that targets ecology, economy and extra convenience (Agfa's ECO3 approach).

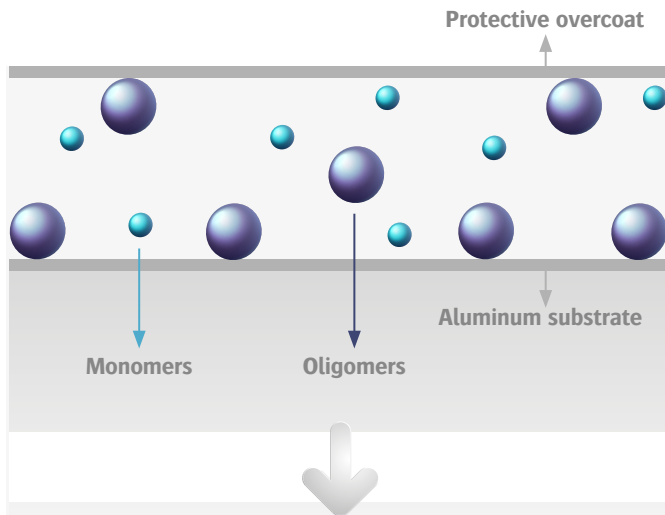
Relying on a two-gum concept – dedicated, pH-neutral clean-out gum and protective finishing gum – this clean-out series requires only small quantities of liquid (50 ml/m²) and minimal energy to swiftly clean Adamas plates. With a long gum bath life and no water requirement, Adamas COU solutions are showpieces of green technology.

Choose your model: connected online with the platesetter, or stand-alone. There's no need for a developer or replenisher and everything is pre-set. So once the Adamas clean-out unit is installed, you're good to go: the unit is designed to handle up to 60,000 m² of plates a year!

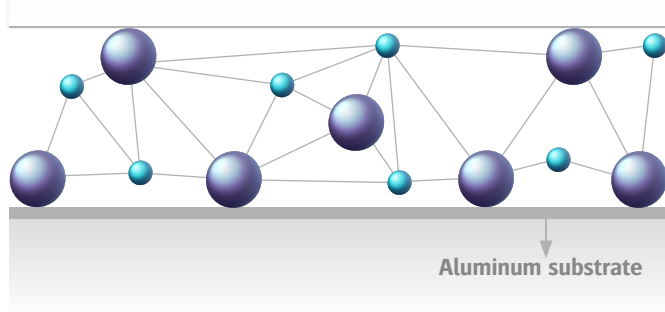
The Adamas COU is available in three different sizes: Adamas COU85, Adamas COU125 and Adamas COU150.



Before exposure



After exposure



Patented ThermoLink technology

As a cutting-edge photopolymer plate, Adamas is based on Agfa's patented ThermoLink technology. Thanks to the ThermoLink technology, the plate compounds are cross-linked without pre-heating, resulting in robustness, high image quality and optimal press performance. This swift polymerization process also ensures a predictable, sharp dot reproduction, making Adamas close to a linear plate.



A variety of applications

Thanks to its robustness, Adamas covers a wide range of demanding print applications – from heatset to commercial sheetfed UV.

- Heatset applications: magazines, catalogs, books, flyers etc.
- Sheetfed applications: compatible with conventional and low-power curing UVH-UV/LED-UV inks

Technical specifications

PLATE CHARACTERISTICS

Technology	Chemistry-free ThermoLink technology
Substrate	High-quality grained and anodized aluminum
Spectral sensitivity	830 nm thermal
Energy	90 mJ/cm ²
Platesetter compatibility	Accredited for most common 830 nm external drum platesetters
Image contrast	Excellent. The plates can be measured with all available densitometers and plate readers.
Plate sizes	All common plate sizes
Gauges	0.15-0.40 mm (0.006-0.016")
Resolution	Sublima 240 lpi at 2400 dpi
Applications	Web and sheetfed, including conventional UV and low-power UV inks
Run length	Up to 350,000, Up to 75,000 in UV

Cleaning out

Developer	none
Clean-out gum	Adamas gum
Replenishment rate	50 ml/m ²
Bath life	8,000 m ² or 12 weeks
Finisher	Unifin, C795, RC795-A, Unifin Plus, Antura MAM1
Clean-out unit*	Adamas 85 COU, & Adamas 125 COU and Adamas 150 COU

ENVIRONMENT

Light conditions	Daylight
Room conditions (T, RH)	19-24 °C (64-75 °F), < 70% RH
Storage conditions	Below 32 °C (90 °F), <70% RH

Adamas clean-out units

PLATE CHARACTERISTICS	ADAMAS COU 85	ADAMAS COU 125	ADAMAS COU 150
Plate width min/max	200-850 mm (7.9-33.5")	200-1250 mm (7.9-49.2")	200-1480 mm (7.9-58.2")
Plate length min	275 mm (10.9")		
Plate thickness	0.15-0.30 mm (0.006-0.012")	0.15-0.40 mm (0.006-0.016")	
Processing speed	120-160 cm/min (47-63 inch/min)		160 cm/min (63 inch/min)
Power	2900 Watt		
Weights	280 kg (616 lb)	360 kg (792lb)	430 kg (946 lb)
Dimensions	1424 x 1122 x 1000 mm (56.06 x 44.17 x 39.37")	1824 x 1122 x 1000 mm (71.81 x 44.17 x 39.37")	2074 x 1122 x 1000 mm (81.65 x 44.17 x 39.37")



ECO³

Agfa is committed to sustainable innovation that focuses on ecology, economy, and extra convenience—or ECO³. We aim at developing cleaner and cost-effective solutions that are easier to operate and maintain, both for chemistry-free and for conventional plate systems.

www.agfa.com