

HQ-PAD

Pad printing ink for industrial applications, suitable for open and closed machines

APPLICATIONS

HQ-PAD is a satin/glossy, one-component ink designed for industrial applications on high end products.

SUBSTRATES

- Painted metallic surfaces
- Soft or rigid PVC
- Polystyrene
- ABS
- SAN
- Polycarbonate
- PMMA

BENEFITS

This pad printing ink is characterized by an excellent mechanical and chemical resistance, especially when mixed with the hardener.

THINNING AND DRYING

HQ-PAD should be adjusted before use to the required viscosity by adding one of the following thinners (10 to 30% in weight):

- THINNER FAST: T-F
- THINNER UNIVERSAL: T-U
- THINNER SLOW: T-S

The thinner choice depends on the required speed and the parameters of the printing equipment.

Mixed with the fast and universal thinner, the ink has a very fast physical drying time between 30 and 60 sec at ambient temperature (20 °C).

The touch-dry time depends on the printing parameters such as cliché depth and the surround temperature.

The complete drying time required to obtain all final mechanical and chemical properties is:

- 4 days for one component ink
- 7 days for two components ink

ASPECT

Satin/gloss finish

CLICHES & PAD PRINTING MACHINES

The curing system of HQ-PAD ink ensures an application in open and closed machines, if the ink's viscosity has been adjusted with the appropriate diluent.

Standard steel or photopolymer clichés can be used. An etching depth of 20-30 microns is recommended for optimum layer thickness.

HQ-PAD has been studied to be not corrosive, the ink ensures a smooth use with steel clichés.

Best printing results will be achieved with a pad reactivated by cleaning with a solvent such as an alcohol to remove residual silicone from pad's surface.

HARDENER & POT LIFE

In case of difficult adhesion, you must add 10% of hardener ST 305.

When mixed with ST 305 hardener, the pot life reaches around 8 hours at ambient temperature (20 °C).

The use of hardener will slightly extend the time of ink's curing. Furthermore, full curing is achieved after 4 days at a room temperature. After that time, complete adherence and physical properties are obtained.

GOLD & SILVER

HQ-PAD Silver 21S is ready to use.

Gold is available in two components in the following shades:

- Powder Rich Gold
- Powder Rich Pale Gold
- Powder Pale Gold

They are obtained in mixing the metallic powder into the varnish.

CLEANING

HQ-PAD can be removed from printing blocks and working materials without any difficulty, using DUBUIT's standard cleaning solvent 93801.

SURFACE ENERGY

A uniform surface energy of at least 42 mN/m is required for a good adhesion. The substrate surface should be free of graphite, silicone, dust and residues of grease or similar substances (e.g. finger prints).

PACKING

1 kg



STORAGE

The HQ-PAD ink series are guaranteed to be stable in their original, unopened packaging; they have a shelf life of 12 months. Storage should be at a temperature between 15 and 25 °C (59-77 °F)

COLOUR MATCHING

DUBUIT offers a full in-house colour matching service from 1 kg. Please provide as much information as possible regarding the type of substrate, colour...

HEALTH AND SAFETY

The vast majority of printing inks and related products formulated by Encres DUBUIT contain no substances of very high concern. Our products comply with the requirements of Directives 2011/65/EU (RoHS 2), 2015/863/EU (RoHS 3) and 94/62/EC (heavy metal concentration levels present in packaging). For more information about our regulatory compliance, please consult our Eco System document, available on request.

HQ-PAD RANGE			
ARTICLE DESIGNATION	REF.	CODE 1 KG	CODE 5 KG
NOIR, BLANC, VERNIS			
HQ-PAD BLACK 13	013	CHQPAD013K	
HQ-PAD WHITE 82	082	CHQPAD082K	
HQ-PAD OPAQUE WHITE 83	083	CHQPAD083K	
HQ-PAD LEMON YELLOW 805	805	CHQPAD805K	
HQ-PAD YELLOW 810	810	CHQPAD810K	
HQ-PAD ORANGE YELLOW 820	820	CHQPAD820K	
HQ-PAD ORANGE 830	830	CHQPAD830K	
HQ-PAD VERMILION 840	840	CHQPAD840K	
HQ-PAD RUBINE 850	850	CHQPAD850K	
HQ-PAD PINK 860	860	CHQPAD860K	
HQ-PAD VIOLET 870	870	CHQPAD870K	
HQ-PAD BLUE 880	880	CHQPAD880K	
HQ-PAD DEEP BLUE 885	885	CHQPAD885K	
HQ-PAD GREEN 890	890	CHQPAD890K	
HQ-PAD VARNISH 090	090		CHQPAD090C
THINNERS		CODE - 1 L	
THINNER FAST	T-F	DTFL	
THINNER UNIVERSAL	T-U	DTUL	
THINNER SLOW	T-S	DTSL	
ADDITIVES		CODE 1 KG	
HARDENER	ST305	BDIV305K	
LEVELLING AGENT	ST155	BDIV155K	

Encres DUBUIT guarantees the quality of our products. However, we cannot guarantee the final result, because we exercise no control over individual operating procedures. Our responsibility is limited solely to the exchange of ink or varnish. The quality of a substrate to be printed can vary, as well as an overprinted ink; therefore, the above information is given in good faith based on the state of our art and prior experience. This statement also applies to our technical assistance. When using our inks and varnishes on a new substrate or when changing operating procedures, we strongly recommend testing first a full-scale production to ensure compatibility. Please refer to our General Conditions of Sales.

