

ECO IMPRES- 4010

Aqueous metallized film primer

TECHNICAL DATA SHEET

INTRODUCTION	ECO IMPRES 4010 is suitable for application via off-line coater units on the metallized filmic stocks. Is generally employed to enhance the adhesion of the inks on the metallized surfaces. This product does not have any slip enhancing additive, hence presents a very receptive surface to the printed inks over itself.	
FEATURES & BENEFITS	 Press performance of this product is tuned to suite most high speed printing machines Stable on the press but dries quickly on the printed stock. Formulated suitably to accept overlapping inks Suitable for the off-line coating operations. APO and Glycol free formulation 	
	ECO IMPRES 4010: Aqueous metallized film primer is applicable via off- line coater units.	
	Single / Double sided	Single sided only
	Heat resistance	Below 120 ⁰ C
	Alcohol resistance	Not specifically designed for this end use
	Foil blockable / Glueable	Always check before use as glues behave differently and are based on different chemical entities (if necessary refer to Organic Coatings)
	Soap and alkali resistance	Not specifically designed for this end use
APPLICATION PROCESS & PRINT CHARACTERISTICS	Whilst not specifically formulated for minimum odour and taint properties, the general exclusion of the toxic materials and overall selection of the raw materials makes this product acceptable for	

	food quality (indirect contact) work and school materials	
PRINTING STOCKS	Different types of paper boards, coated paper stock (recommended stock GSM more than 80) or art cards	
TYPICAL PROPERTIES	Appearance Viscosity Ford cup IV @30°C pH Solids % Specific gravity	 Translucent liquid 50 to 80 seconds 7 - 9 46±1 Close to one
TYPE OF INKS RECOMMENDED	Offset UV Inks, Solvent or Water based Flexo & Gravure inks	
DRYING OF THE COATING	Once the sheets or web are coated they will be almost touch-dry on delivery. Drying is usually enhanced by a dedicated drying system, the most common of which being combination of IR lamps and hot air knives. The use of IR lamps allows the printer to control drying speed and print stack temperature. The ideal stack temperature for single side work would fall between 30.	
	• For high speed machines and in-li	ne coating 35 to 45 seconds
VISCOSITY	 For off-line coatings or slow machines 45 to 60 seconds Since addition of water lowers the viscosity at rapid rate, it is recommended that water should never be added at levels more than 2 to 3 %. Addition of excessive water results in sinking of the coating in the stock, thereby lowering the gloss level. Further, presence of excessive water means demand for additional heat energy to dry the coating this in turn may result in curling problems in case of low grammage printing stocks. 	
FOAMING ISSUES	Foaming is an inherent phenomenon these aqueous systems. The foam is g agitation levels within the aqueous coa foaming is curbed by employing defoamers or de-aerators. Generall sacrificial nature - which means they the process of killing the foam generat defoamers at the coating manufactur such as fish eye effect and or imperfect grades of these surfactants, when used the Over-Printing / Gluability /	for chemistry employed in enerated due to turbulence / ting application process. The external surfactant, called ly, these surfactants are of themselves get consumed in ted. Excess addition of these rers end presents problems, at lay of the coatings. Certain d in excess are likely to affect Foil Stamping acceptance

characteristics of the dried aqueous coating film. The precautions required to be taken at the time of coating application to prevent excessive foaming being:

1. Ensure minimum feasible level of turbulence while applying the aqueous coatings

a. The coating duct outlet pipe must be left deep inside (bottom) of the coating holding container

b.If feasible employ peristaltic pump (operating on the squeezing like tooth paste technology) rather than normal pumps

c. In case of excess buildup of foam in the coating tray or tank, spray or add recommended dosage of the Defoamer compound supplied by the coating manufacturer

2. Once the coating work is finished, the coating application system could be cleaned with hot ammonical or soap water. It is important that the coating is not allowed to dry completely on the roller or anilox as then the removal of the same becomes that much difficult. The steps to follow as soon as the work is finished are:

a. Dis-engage the anilox or rubber roller from coating duct

b.On one hand apply hot soapy water to the anilox / rubber roller / rubber blanket - to prevent coating from hard drying c. On other hand empty the balance coating from the coating duct.

d.Simultaneously clean the coating duct and anilox / rubber roller etc. thoroughly off remaining aqueous coating

OPERATIONWhen the coating/printing operation is stopped for any minor
adjustments / corrections - keep the coating Roller or Anilox idling
inside the coating duct - this prevents coating drying on the roller /
anilox.PRECAUTIONSanilox.AND CLEANINGIn case of long stoppages, it is advisable to di-engage the roller /
anilox from the coating duct and clean the same off aqueous coating
to prevent coating drying on the same.

PACKING 20 and 240 kg in HDPE containers

STORAGE, SHELF LIFE AND HANDLING Store in shadow with temperatures not exceeding 30° C and not below 5° C. If kept unopened and under recommended storage conditions then this product has a minimum shelf life of 12 months. Always shake before use. Always keep the lid tightly closed on the half-opened container. During the use do not put the coating to intense or vigorous agitation as this increases the tendency of foaming. If possible use peristaltic pump on the printing machine. The return pipe from the coating duct must always be touching the bottom of the coating vessel/container as this avoids excessive

	foaming. During the long print runs make an attempt to keep the coating container lid tightly closed. Coating, when wet could be cleaned with water (cold or warm water). For the information on use of w/b coating additives, which help to modify the coating properties to suite the machine and print job requirement, please refer to our W/B coating additive guide-line. This literature also helps in overcoming some of the frequently experienced coating related problems or headaches.
HEALTH & SAFETY	 Formulation In accordance with BCF "Raw material selection" Manufacture Bulk manufactured in accordance with BCF "Good manufacturing practice" Hazardous Goods label Not required Risk in usage. This coating will not pose anysignificant hazard provided reasonable standards of industrial practice are maintained
	The information contained in this product data sheet corresponds to

DISCLAIMER DISCLAIMER application and processing of this product lies with the buyer, who is also responsible for observing the third-party rights. Also, we reserve the right to alter any of the details presented here because of technical or manufacturing development

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