

3 Series Ink Primer

Technical Information Sheet

Primer for multiple ink types

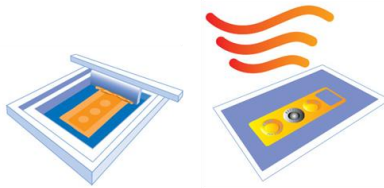


PRODUCT DESCRIPTION

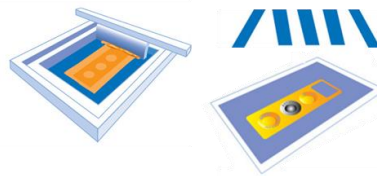
3-Series ink primer was developed to promote ink adhesion to hardcoated polyester* films. Hardcoated polyester films make excellent substrates for human machine interface (HMI), membrane touch switches, fascias and graphic overlays for industrial and consumer electronics because they are durable and resistant to a wide range of chemicals. This resistance means an ink primer is required for inks to adhere to the print side of the film.

3-Series ink primer has been developed and tested for ink adhesion of the 3 main ink types used in these markets:

Solvent based, oven curable
screen printing



UV cured
screen printing



UV cured
digital printing



3-Series ink primer means that the same film can be used for inkjet prototypes, short run inkjet and long run screen printed jobs, reducing inventory.

Ink type	Primer		
	0-Series	7-Series	3-Series
Solvent Screen print	Excellent	Excellent	Excellent
UV Screen print	Not recommended	Excellent	Excellent
UV Digital	Generally good	Not recommended	Excellent

For the HP Indigo process, please select MacDermid “DP” specialist primer.

* The term polyester is the generic term for several different polymers, of which polyethylene terephthalate (PET) is the most common.



PRODUCT RANGE with 3-Series Primer

Range name	Finish	Product		
Autoflex EB gloss and antiglare hardcoat with green laminate on the ink primer	Gloss	G133L	G183L	G253L
	Antiglare	A133L	A183L	A253L
Autotex textured hardcoat	Fine	F153	F203	F283
	Velvet	V153	V203	V283
	Touch	T153	T203	
Autotex Steel textured hardcoat	Steel	S153	S203	
Autotex AM antimicrobial, fine and touch textured hardcoat with laminate	Fine Touch	F153L T153L	F203L T203L	
Autotex XE outdoor suitable	Fine	XE F153	XE F203	
	Velvet	XE V153	XE V203	XE V283
Autotex Softouch soft feel coating with green laminate	Softouch	ST153L	ST203L	



INKS

The following inks have been tested at MacDermid Enthone Industrial Solutions laboratories. The list is intended to represent the breadth of print processes and inks that are compatible with MacDermid 3-Series primed polyester films. Many other inks may be suitable. Always trial a print run before production.

Tests in accordance with WI-00912 Ink Adhesion and WI-01096 Switch-life testing.

Ink type	Ink Manufacturer	Ink name (digital printer)
UV curable, inkjet ink	Marabu	Maqua® Jet DA-RGO (Roland VS-300iS-GO)
	Sericol	KA* (Acuity Select 28) KN* (Acuity HS 38)
	Océ	IJC 357 LED
	Roland	EUV4
	Sun Chemical	Sunjet Crystal (SwissQ Impala)
	Mimaki	LUS 120 (Mimaki JFX200-2513)
Solvent based, screen printing ink	Marabu	Marastar SR Maraswitch
	Sericol	Polyplast PY
	Sun Chemical	Vynaglaze
	Coates	HG
	Nazdar	GV 8800
UV curable, screen printing ink	Marabu	Ultraswitch
	Nor-cote	IM PTX MSK
	Sun Chemical	PD
	EPTA	UV Tech
	Nazdar	3400

* Fuji-Sericol in house testing

SHELF LIFE & STORAGE CONDITIONS

The recommended shelf life is 36 months from date of manufacture. MacDermid Enthone Industrial Solutions guarantee a minimum remaining shelf life of 8 weeks at the time of despatch.

The recommended shelf life represents the maximum processing life time of the product from the date of manufacture when stored correctly and in unopened packaging.



The following storage conditions are recommended:

Storage Conditions	
Temperature	15 °C to 25 °C
Relative Humidity	50 to 65%
Packaging	Store in original protective packaging Once the packaging has been opened, the processing lifetime can be compromised due to air ingress, contamination or UV light
Moisture	Store away from water sources
Chemicals	Keep away from aggressive solvents

IMDS ID-No

By arrangement with our regulatory affairs team

SAFETY & WARNING

MacDermid Enthone Industrial Solutions recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available from MacDermid Enthone Industrial Solutions.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Enthone Industrial Solutions for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.



CONTACT INFORMATION

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Suggestions concerning working practices and procedures are based on the practices adopted by existing users of the products and are made in good faith. IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT ALL RELEVANT HEALTH AND SAFETY LAWS AND REGULATIONS ARE COMPLIED WITH. MacDermid does not provide any advice on such laws and regulations and accepts no responsibility, express or implied, for breach of such regulations.

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