

# MetaWrap MDX

Cylinder Cast Digital Wrapping Media with Blockout 'MetaScape' System



## Product Description

MetaWrap MD-X is a 50 micron ultra-conformable, extensible digital wrapping media, supplied with the MetaScape air release adhesive system to allow quick and easy application on compound curves as well as moderate recesses. The soft film has been developed to flow and conform over the most challenging surfaces so it's ideal for total vehicle wraps. The grey blockout adhesive ensures vibrant graphics and minimal substrate show through. The film offers high levels of dimensional stability and brilliant colour reproduction on Solvent, Eco Solvent and Latex printers.

## Features

- Cylinder Cast Film for 3D wraps, channels & recesses.
- MetaScape air release adhesive.
- For Solvent, Eco Solvent, Latex and UV printing.
- Matched MetaGuard MGX Overlamine.

## Benefits

- 7 year durability and MetaSure Warranty.
- MD Series for best in class print quality & wide colour gamut.
- Engineered to give long term dimensional stability.

## Face Film

Face Film	Cylinder Cast Vinyl
Gauge (ISO 2286-3)	50 micron nominal
Elongation at break	180% MD nominal

## Adhesive

Type	'MetaScape' permanent Grey Solvent-Based Adhesive.
Adhesion to glass 20 mins	15N/25mm nominal
Adhesion to glass 24 hour	20N/25mm nominal
Application temperature	+10°C to +40°C
Service temperature	-30°C to +110°C

## Release Liner

Print	'MetaScape' print
Weight	140 gsm nominal
Type	Structured layflat Kraft with PE Coating

## Finishes

Finishes Available	MD-X-100	White Gloss
	MD-X-105	Clear Gloss (Not Metascape)

## Roll Presentation

Roll Widths	0.76m / 1.37m / 1.60m
Roll Lengths	50m / 25m

## Durability

Shelf Life	2 years. (10-20°C and 50% R.H).
External weathering	7 years (Unprinted). Northern European conditions, vertical. Refer to full Metamark International durability guide.
Fire Rating	Self-extinguishing.
Chemical Resistance	Unprinted film resistant to mild acids, aliphatic solvents, salt and alkali, diesel, gasoline, paraffin, hydraulic oil, antifreeze.

## Printing and Handling

- For use with Solvent, Eco Solvent, UV and Latex inkjet printers.
- Always perform a test print first.
- Ensure that the correct profiles and heater settings are used. Refer to [www.metamark.co.uk](http://www.metamark.co.uk).
- Ensure that the material has reached room temperature and a relative humidity of 50% before printing.
- Do not handle the face film, ensure free from dust and static.
- Overlamination is recommended to prevent abrasion, extends colour fastness, and also offers easier handling.
- Allow the inks to cure before overlaminating, Allow a minimum of 48 hours for the solvents to out-gas before overlaminating and before application to the vehicle. Solid, saturated dark colours can require in excess of 48 hours.
- The matched laminate for MDX is MetaGuard MGX.

## Application

- Allow a minimum of 48 hours for the solvents to out-gas before overlaminating and before application to the vehicle. Retained solvents, drying conditions and colour saturation can significantly reduce adhesion. Solid, saturated dark colours can require in excess of 48 hours.
- Successful vehicle wrap application requires the necessary techniques. Refer to [www.metamark.co.uk](http://www.metamark.co.uk) for application guidelines.
- The product is designed to be used with a dry application, apply 65-75°C heat to soften the film and allow conformability and after application superheat the film into recesses at 100-105°C. Do not overstretch as this will cause the application to fail.
- The user should determine suitability of substrate

## MetaSure® Warranty

Metamark (UK) Limited warrants to its customers that graphics produced using Metamark Media and Overlaminates will remain in good condition without excessive fading or colour degradation for the specified life time of the ink used, when correctly stored, printed and applied in accordance with procedures outlined in the technical literature. If within the specified years of normal use Metamark Media and Overlaminates becomes ineffective for its intended use, then Metamark will provide sufficient material to produce a new replacement marking, and will at its own discretion, contribute an allowance in additional material towards the costs involved in replacing the graphics. In all cases, the converter is held fully responsible for storing, processing and applying the unconverted materials in accordance with Metamark's technical specifications. Metamark (UK) Limited will not be liable for any indirect or consequential loss or damage, and will not provide any allowance against improper usage, application accident, negligence, chemical damage or improper repair. The above data is given in good faith to provide an indication of the performance of the product. Purchasers should consider the suitability of each product for its intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product nor for incidental nor consequential loss.

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## Product Description

MetaGuard X is a 50 micron Cylinder Cast soft PVC Overlamine. Matched to Metamark MD-X digital wrapping media, this system provides assurance of dimensional stability and trouble free application over 3D surfaces, compound curves and recesses. The Apex assured solvent-based adhesive delivers high performance, and is suitable for cold overlamination. Finishing prints with MetaGuard X prevents abrasion, extends colour fastness, and also allows offers easier application.

## Material Handling

- This product is suitable for cold lamination using a laminator.
- Ensure that the material has reached room temperature and a relative humidity of 50% before use.

## Overlaminating

- Suitable for use on Solvent, Eco Solvent Inkjet and Latex prints on Metamark print media. Not suitable for UV prints.
- The product is matched to Metamark MD-X. Matched laminates prevent tunnelling and delamination.
- Allow the inks to cure before overlaminating, usually 24-48 hours. Failure to do so can cause delamination, tunnelling and shrinkage.
- Apply around 30°C on the top roller to prevent silvering of the adhesive.
- Refer to [www.metamark.co.uk](http://www.metamark.co.uk) for further application guidelines.
- The user should determine suitability of the overlamine to the print media.

## Face Film

Face Film	Cylinder Cast Film
Gauge	50 micron nominal
Tensile Strength	18N/15mm MD min
Elongation at break	180% MD nominal

## Adhesive

Type	Permanent clear pressure sensitive solvent-based acrylic with UV inhibitors
Weight	22gsm nominal
Adhesion to glass 20 mins	15N/25mm nominal
Adhesion to glass 24 hour	20N/25mm nominal
Shear strength	Medium to high
Application temperature	+5°C to +60°C
Service temperature	-30°C to +110°C

## Release Liner

Print	'Metamark Digital Vinyl' grey print
Weight	140 gsm nominal
Type	Advanced specially treated layflat kraft paper with high internal strength and PE coating

## Finishes

Finish Available	MG-X-005	Gloss
	MG-X-002	Matt

## Roll Presentation

Roll sizes and net weights	760mm x 50m	10kg
	1370mm x 50m	19kg
	1600mm x 50m	22kg
Presentation	Laminate outwards, on a 76mm core. MG-X-002 available in 1370mm only.	

## Durability

Shelf Life	2 years
External weathering	7 years. This refers to the unprinted vinyl. Refer to ink manufacturer for durability of the finished product.
Fire Rating	Self-extinguishing. The fire rating is a function of the substrate.
Chemical Resistance	Unprinted film resistant to mild acids, aliphatic solvents, salt and alkali, diesel oil, gasoline, paraffin, hydraulic oil, antifreeze.

**Warranty:** Metamark (UK) Limited warrants to its customers that graphics produced using Metamark Metaguard will remain in good condition without excessive fading or colour degradation for the specified life time of the ink used, when correctly stored, printed and applied in accordance with procedures outlined in the technical literature. If within the specified years of normal use Metamark Metaguard becomes ineffective for its intended use, Metamark will provide sufficient material to produce a new replacement marking, and will at its own discretion, contribute an allowance in additional material towards the costs involved in replacing the graphics. In all cases, the converter is held fully responsible for storing, processing and applying the unconverted materials in accordance with Metamark's technical specifications. Metamark (UK) Limited will not be liable for any indirect or consequential loss or damage, and will not provide any allowance against improper usage, application accident, negligence, chemical damage or improper repair. **Please Note:** The above data is given in good faith to provide an indication of the performance of the product. Purchasers should consider the suitability of each product for its intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product nor for incidental nor consequential loss.