



## LARGE FORMAT DIGITAL PRINT MEDIA AND LAMINATES

### FLEXATHANE G100 LIQUID LAMINATE



UV PROTECTION  
UP TO  
**12-months**  
ABRASION  
UP TO  
**12-months**

Finish	Gloss
Flexibility	Excellent
Stretch	Limited
Yellowing	No



**FLEXATHANE G100** is an economical, high gloss, water based polyurethane liquid laminate that provides an attractive, protective top coat for printed signage media. Fast drying and easy to apply, **FLEXATHANE G100** protects against UV weathering, chemical attack, abrasion and scuffing whilst accentuating the appearance of digital prints.

#### FEATURES

- ▶ Single pack, clear, water-based polyurethane with a low odour.
- ▶ Non flammable.
- ▶ Quick drying with an attractive high gloss finish.
- ▶ Accentuates print colour and colour density.
- ▶ Flexible (can be applied to flexible substrates e.g. banners).
- ▶ UV and light resistant.
- ▶ Good durability and hard wearing.
- ▶ Zero tack - attracts no dust or dirt.
- ▶ Excellent flow and leveling properties resulting in a high-gloss "magic-mirror" finish.

#### APPLICATIONS INCLUDE:

Indoor signage projects, decals, banners etc. as well as short term outdoor signage projects.

#### MEDIA SUITABILITY:

ABS, PC, Selfadhesive Vinyl, PVC, Fibreglass, Wood, Metal and other plastics.

#### INKS:

- ▶ All non-water sensitive inks including eco-solvent, solvent and UV. **Not suitable for Latex inks.**
- ▶ High speed production environments will require accelerated drying mechanisms. E.g. IG curing.

#### APPLICATION

Roller, pad applicator, spraying or liquid laminator.

#### GENERAL ADVICE:

Always test G100 on new materials and inks. Assess project demands, weather conditions against curing times and then select the appropriate product.

#### PROTECTS AGAINST



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## GENERAL APPLICATION GUIDELINES

Ready-for-use with pad applicator, roller, spray-gun or liquid laminator. A paint brush can be used, but this is not recommended. A high density foam applicator is preferred. (Available from Maizey Plastics)

### THINNING

Thinning NOT required for conventional application. For spraying, dilute with 5% water (H<sup>2</sup>O).

### LIQUID LAMINATOR

If required, dilute by up to 10% water (H<sup>2</sup>O). (Manufacturer available for consultation.)

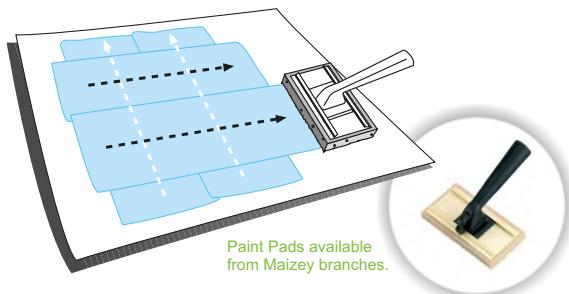
### CLEANING

Use water (H<sup>2</sup>O) and do NOT allow the product to dry before cleaning tools.

## DIRECTIONS FOR USE

### PAD APPLICATOR

- ▶ Pour appropriate amount of Flexathane into tray or similar container.
- ▶ Coat an even layer of Flexathane onto the applicator.
- ▶ Apply Flexathane onto the substrate using vertical or horizontal strokes, until the desired **film thickness and overall eveness** is achieved.
- ▶ Apply a second coat if higher gloss is required, ensuring the 2<sup>nd</sup> coat is applied 90° to the 1<sup>st</sup> coat typically 60 - 70 minutes after the first coat.



### SPRAYING

- ▶ Recommend the use of a 1.4 - 2.0 mm fluid tip and 280 - 420 KPa (40 - 60 psi)
- ▶ Use 50% overlapping strokes. Apply with a straight wrist and ensure the gun is no further than 15cm from substrate during spraying. Apply a continuous action throughout the process and do not stop until the project is completed or the Flexathane is finished.
- ▶ Apply 1 - 2 medium coats for the desired finish.
- ▶ Clean the gun with water (H<sup>2</sup>O) immediately after use.

### LIQUID LAMINATOR

- ▶ If required, thin with 5-10% H<sup>2</sup>O. Contact manufacturer if technical assistance required.

### SUBSTRATES

Use on plastics, vinyls, self-adhesive vinyls, PCs, ABS and PVC. Apply on rigid or flexible substrates.

### RECOMMENDED FILM BUILD

- ▶ 20 - 40 microns (μm)
- ▶ >25 μm gives a high gloss finish

### SPREADING RATE

This depends on mode of application and required film build. As a guide, a 25 μm film build will cover 12m<sup>2</sup>/ liter where 100% delivery efficiency.

### DELIVERY EFFICIENCY

- ▶ Pad applicator - 90%
- ▶ Conventional spraying - 40%
- ▶ HVLP spraying - 70%

### DRYING TIME

- ▶ Air drying < 75mins @ 20°C
- ▶ IR curing < 5mins

### PRECAUTIONS

- ▶ **Test Flexathane suitability on substrate and inks before proceeding.**
- ▶ Clean sign with water (H<sup>2</sup>O) and **mild** soap. Strong solvents or soaps **NOT** recommended.
- ▶ Keep container sealed and store in a cool dry place. **Do NOT freeze.**

### PACK SIZES

- ▶ 1, 2 and 5 Liter bottles

## GENERAL DATA

Type	Polyurethane / Acrylic Hybrid
Drying time @ 20 °C	Touch Dry < 75 minutes Through Dry < 120 minutes
Curing	7 days
Viscosity (Brookfield RVT)	150 - 200 mPas (Spindle 1)
Specific Gravity	1.00 - 1.05
Gloss	High Gloss (>80 on 20° Geometry)
NVM (Non-volatile matter)	34 - 36%
VOC	< 80g/liter
Dry Film Thickness	20 - 40 μm
Theoretical Spreading Rate	10 - 15 m <sup>2</sup> / liter for 20-40 μm of film build
Pendulum Hardness (König)	110
pH	7.5 - 8.5
Flash Point	Not Applicable - Water Based

