

## Technical Data Sheet

# LAG 100

### IMAGin

The Imagin products is a series of self adhesives especially designed for overlaminating and protecting large and medium size digital prints.

### PRODUCT DESCRIPTION

- LAG 100 is a soft 60µm polymer with a satin finish, coated on one side with a high tack clear acrylic pressure sensitive adhesive. The adhesive is protected by a white, easy to remove paper liner.
- Being conformable and resistant to the main staining agents and graffiti paints, LAG 100 is the ideal laminate to protect images on flat to slightly curved surfaces against vandalism.

#### LAG 100

- protects prints against graffiti
- retards colour fade of printed images caused by ultraviolet (U.V.) light exposure
- does not influence the pH level of the substrate to which it is applied
- eases the surface cleaning
- is compatible with substrates printed with SB, WB, eco-solvent and UV inks.

### PHYSICAL PROPERTIES

#### Adhesive data, 23°C

	<u>Typical value</u>	<u>Test Method</u>
Quick Tack on glass (N/25 mm)	15	FTM 9
Peel 180° on glass (N/25 mm)		
- after 20 minutes	12	FTM 1
- after 24 hours	14	FTM 1
Dimensional stability, % shrinkage, 48h at 70°C on aluminium	<= 0.1	FTM 14 Sample mounted on aluminium
<b><u>Release liner</u></b>		
White clay coated kraft paper liner (g/m <sup>2</sup> )	135	ISO 536
<b><u>Thickness</u></b>		
Film + adhesive (µm)	90	ISO 534 (ASTM D 645)

### HEAT RESISTANCE

Application temperature range : + 5°C to + 40°C  
 End-use temperature range : - 30°C to + 60°C

For temperatures outside those quoted above, please consult with MACtac.

### **CHEMICAL RESISTANCE**

Resistant to water and detergents.

Also resistant to most diluted acids and alkalis.

Not affected by short contact with most of aliphatic hydrocarbons and alcohol.

Not recommended for use in contact with aromatic and chlorinated hydrocarbons.

For further technical advice, please consult with MACtac.

### **SHELF LIFE**

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

### **DURABILITY**

LAG 100 will give satisfactory performance during 3 years of outdoor exposure.

The durability relates to the laminating film itself

Indoor exposure will increase the durability values of the laminating film (up to 10y).

**Note** : These end-use life estimates are based on accelerated ageing studies and **outdoor** exposure, under conditions experienced in vertical exposure and in "normal" temperate climates. Exposure to severe humidity and ultraviolet light, as in southern European countries, and also in tropical, sub-tropical or desert regions, will cause a more rapid deterioration. This also applies to polluted areas, high altitude, horizontal and/or south-facing exposure.

### **RECOMMENDATIONS**

- Where possible, always test the proposed construction under actual application and end-use conditions because a 100% multi-purpose adhesive for all substrates does not exist.
- In order to reach the best result, it is recommended to apply LAG 100 on the image with the help of a professional laminator with a top cylinder temperature about 25°C. When laminating digital prints, please ensure the print is perfectly dried before. Special care should be taken in the case of ecosolvent, SB and UV inks (min 48h drying period) to avoid tension issues linked to the post curing of UV inks. In addition, the laminated images should be left for at least 24h prior to any complex installation work.
- Print media from the JT5000 range laminated with LAG 100 can be rolled up to allow easy transport. The roll should have a diameter above 7cm and the image should be facing outwards.
- During application onto uneven surfaces, special care should be taken to the stabilisation step to avoid lifting of the complex.

### **CLEANING PROCEDURE**

Always remove the graffiti as soon as possible from the LAG 100 to ensure the best cleaning result. We recommend to use our biodegradable graffiti remover TagAway for removing all sorts of stains and graffiti - even the metallic colours.

First remove dust from the surface. Then apply TagAway on the graffiti with a paint brush. Let it stand for several minutes (~2-3min) before :

-first cleaning with a soft brush and

-then rinsing using a pressurized water gun (Kärcher). The rotative brush of the pressurized water gun should not be used to clean the surface.

Leave the TagAway remover gel longer or start again this procedure if some graffiti is left or if several layers of colours have been sprayed. For more information on our biodegradable graffiti remover, please consult related TDS.

#### **IMPORTANT NOTICE**

All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.

*Because of the variety of uses of MACtac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages. All specifications are subject to change without prior notice.*