

# TagProtect Clear series

## PRODUCT DESCRIPTION

- TagProtect Clear is a series of clear 200 µm polymer, 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.
- TagProtect Clear series is available in different finishes :
  - TagProtect Clear 329 : glossy finish
  - TagProtect Clear 329 S : sand glossy finish
  - TagProtect Clear 324 : satin finish
  - TagProtect Clear 328 S : sand matt finish
- Being conformable and resistant to the main staining agents and graffiti paints, TagProtect Clear is the ideal product to protect building facades, bridges... against vandalism.
- TagProtect Clear can directly be applied onto the surface to be protected

### TagProtect Clear

- protects the surface against graffiti, stains
- reduces colour fade of frescos 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 mainly compatible with different non porous substrates like metallic surfaces, PE gel coats... However, it can also be used on porous substrates like fair-faced concrete and natural blue-stone.

## PHYSICAL PROPERTIES

	<u>Typical value</u>	<u>Test Method</u>
<b><u>Adhesive data, 23 °C</u></b>		
Quick Tack on glass (N/25 mm)	16	FTM 9
Peel 180° on glass (N/25 mm)		FTM 1
- after 20 minutes	17	FTM 1
- after 24 hours	19	
Dimensional stability, % shrinkage, 48h at 70 °C on aluminium	<= 0.2	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)	200	ISO 534 (ASTM D 645)

## HEAT RESISTANCE

Application temperature range : + 15 °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.

## **EXPECTED DURABILITY**

The expected vertical outdoor durability of the unprocessed product in central Europe (Zone 1) is up to 3 years. This information is based on successful real life experience and artificial aging according to ISO4892-3.

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

**Note** : *Exposure to severe temperatures, ultra-violet light as well as conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure. No durability warranty is given for horizontal exposure. For more information, please refer to Technical Bulletin 7.5: "Outdoor Durability of combined MACtac print media and laminates"*

## **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 and TagProtect will always slightly modify the aspect of the substrate.
- The removal of TagProtect Clear from the substrate will "clean" it from dust, pollution etc. modifying the substrate appearance. Avoid working in small patches and avoid sticking the material outside the area to protect. Removal should be done upon heating, with a peeling angle of 180° with the substrate (parallel to the substrate then) and with a 90° angle.
- In order to reach the best result, it is recommended to apply TagProtect Clear on the substrate with the help of a gas burner heatgun at a temperature of 200°C and to stabilize well the film at higher temperature (~600°C). Film temperature should be controlled with the use of an IR thermometer (~90°C during application and ~120°C during stabilisation). More information can be found eg in the Technical Bulletin "TagProtect Clear Application Guide".
- TagProtect Clear should not be applied on a damp wall as the humidity of the wall may hinder the adhesive bond to the surface. Application should only be done if with a moisture meter like Voltcraft MF-100, the measured percentage of humidity of the wall is below 30. Application on walls most exposed to heavy rains should be avoided.
- Where exposure to chemicals, solvents or high pressure water hoses is envisaged, it is recommended to seal the edges of the prints with varnish or silicone in order to avoid penetration of these liquids.
- On porous substrates, water droplets may appear between TagProtect and the substrate ; they will however disappear with time and sunlight. They can somehow be limited by increasing the contact with the substrate.

## **CLEANING PROCEDURE**

Always remove the graffiti as soon as possible from the TagProtect Clear film 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.*

