

Mactac Protect Pro Matte

PRODUCT DESCRIPTION

Mactac Protect Pro Matte is a 200 µm matte, optically clear, top-coated self-adhesive aliphatic thermoplastic Polyurethane (TPU) film. The matte self-healing top-coat helps to maintain the look of the vehicle by enabling healing of mild or medium scratches when heated above 40-45 °C from the sunlight or another heat source (eg. heat-gun, hot water). The matte finish allows one to customize the appearance of the vehicle while protecting the paint surface. The design of the film helps minimizing stains to a certain extent and enables good outdoor performance

Face Material: 165 µm top-coated thermoplastic polyurethane (TPU) film.

Adhesive: Permanent acrylic adhesive.

Liner: 75 µm PET siliconized liner.

TYPICAL USE

Mactac Protect Pro Matte is an engineered top-coated paint protection film created to protect a vehicle's finish. The film is specially designed to reduce the appearance of stone chipping, road debris and insect damage, mild scratches and color fading on painted metal surfaces. It is also ideal to protect specifically exposed vehicle surfaces such as side mirrors, spoilers, rocker panels, etc. It helps in achieving optimal protection on vehicles when applied to fully cured painted surfaces.

PROCESSING

Mactac Protect Pro Matte must be applied following the instructions in [TB 8.0 "Application guide: Mactac Protect series"](#), available from the resource section at www.mactacgraphic.eu. Mactac Protect can be easily size by manual cutting or digital cutting plotters. It can also be applied on top of applied Mactac Color Wrap film.

Note: Always store unused material on the roll and tightly wound and secure. The compatibility with paints and lacquers should be tested by the end-user, prior to use. The compatibility with other application liquids, gels or cleaning products than those recommended in TB 8.0 "Application guide: Mactac protect series" should be tested by the end-user, prior to use.

SHELF LIFE

One year when stored at 22 °C and 50-55% rH (in the original packaging).

PHYSICAL PROPERTIES (TYPICAL VALUES)

Thickness	Average Value	Test Method
Top-coated TPU	165	ISO 534
Total (TPU + Adhesive)	200	ISO 534
Liner	75	ISO 534
Face Material data, 23°C		
Tensile Strength (MPa)	>20	ISO 527
Elongation at Break (%)	>200	ISO 527
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on stainless steel		
- 20 min. residence	>13	FTM1
- 72 hour residence	>18	FTM1
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	<0.15	FTM14
Temperature ranges		
Application (°C)	>10	
End-use (°C)	-40 to 100	
Solvent and chemical resistance		
Resistance to gasoline, carwash solution, anti-freeze, diesel, isopropyl alcohol, heptame and 10% sulphuric acid	30 min exposure	No significant change

EXPECTED DURABILITY

Expected Durability			
	Zone 1	Zone 2	Zone 3
Vertical exposure	10 years	8 years	6 years
Horizontal exposure	7 years	4 years	3 year

This information is based on artificial aging.

For more details about durability and zone classification, please refer to [TB 7.5 "Outdoor Durability of Mactac Graphics - Self-adhesive films"](#).

Exposure to severe temperatures, ultraviolet light, and/or conditions in Southern European countries, tropical, subtropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south-facing exposure.

DISCLAIMER

For more information on the durability and exposure please visit the "Mactac Technical Bulletin TB 7.5 Outdoor Durability of Mactac Graphics - Self-adhesive films" on the [www.https://www.mactacgraphics.eu](https://www.mactacgraphics.eu) website.

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