

Specialties: Stone chips protection CrystalProtect 150

GENERAL INTRODUCTION

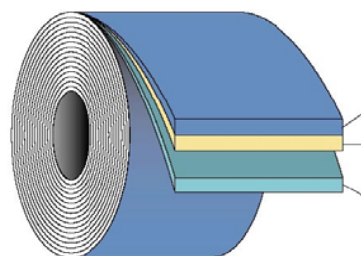
Specialties

-is a range of high technology self-adhesive products, developed for specific industrial applications, particularly in the medical, optical or security fields, etc

CrystalProtect 150

- consists of a Polyurethane film 150μ coated on one side with a permanent acrylic adhesive.
- CrystalProtect 150 is produced on a 36μm PET filmic liner siliconized both sides to ease unwinding operation.

Gravelometer Test



Pu film 150 μ

Pure acrylic
adhesive

PET film 36μ
siliconized 2 sides

PRODUCT DESCRIPTION

TYPICAL APPLICATION

Automotive Industry: specially designed to reduce stone chipping and insect damage on painted surfaces. Excellent for protecting side mirrors, car underbodies, spoilers, rocker panels, etc. Offers equal protection on new or used vehicles when applied to fully cured painted surface. Totally invisible thanks to its exceptional transparency, CrystalProtect 150 is designed to cover and protect large parts of vehicles.

CHARACTERISTICS

Adhesion with Substrates

Metal / Aluminium	Medium	Textile/Cotton	Low
Glass / Ceramics	Medium	Rubber/EPDM	Medium
Painted Surface	Medium	Acrylic/PET	Medium
Wood/Board/Paper	Medium	Polystyrene	Medium
Soft PVC	Low	PP/PE/PS	Medium
Rigid PVC	Medium	Smooth substrate	Medium
PC/ABS	Medium	Rough substrate	Low

RESISTANCE

Resistant to water and detergents. Not recommended for use in contact with detergents containing more than 50% alcohol concentration. Not recommended for use in contact with aromatic hydrocarbons, chlorated solvents, ketones or esters.. *For further technical advice, please consult with MACtac*

SHELF LIFE

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

DURABILITY

CrystalProtect 150, when professionally applied can be used outdoor for a period of 4 years (wearing away in normal road conditions).

CrystalProtect 150 must be applied to painted surfaces that are **fully cured** according to the paint manufacturer. As this curing process is different by brand, please follow the paint manufacturer's instructions.

**ADHESIVE
DATA**

	TYPICAL VALUES (*)	TEST METHOD
Quick Tack (N/25mm) on stainless steel	18	FTM 9
Peel 180°-20 min (N/25mm) on stainless steel		
- after 20 minutes	16	FTM 1
- after 24 hours	20	FTM 1
Shear (hours) 1kg-25 mm x 25mm	> 500	FTM 8

**CARRIER
DATA**

	TYPICAL VALUES (*)	TEST METHOD
Thickness (μ)	150	ISO 534
Tensile (N/15mm) MD (Min.)	100	DIN 53455
Elongation (%) MD (Max.)	800	DIN 53122

**TEMPERATURE
RESISTANCE**

Minimum application temperature	+ 10 °C	
End-use temperature range	- 40°C to + 120°C	
Short time T°	130° C	S.A.F.T.

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

**RELEASE
LINER**

PET film of 36 μm	ISO 536
200 μ	ISO 534

**THICKNESS
(Carrier+Adhesive)**

(*) Values given are typical and are not necessarily for use in specifications.

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 are based upon research which the Company believes to be reliable but such information do not constitute a warranty. Because of the variety of possible uses for MACtac products and the continuing development of new uses, the purchaser should carefully consider the fitness and performance of the product for each 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 or for incidental or consequential damages. All specifications are subject to change without prior notice.