

Crystal Protect 150

PRODUCT DESCRIPTION

Crystal Protect 150 is a 150µm glossy, optically clear, aliphatic PU film coated on one side with a permanent adhesive.

Face Material: 150µm polyurethane (PU) film

Adhesive: Permanent acrylic adhesive

Liner: 75 µm PET siliconized filmic liner

TYPICAL USE

Crystal Protect 150 is recommended for partial or full vehicle protection. The film is specially designed to reduce stone chipping and insect damage on vehicle painted surfaces, for protecting side mirrors, spoilers, rocker panels, etc. It offers optimal protection on vehicles when applied to fully cured painted surfaces.

Crystal Protect 150 is a paint protection film with self-healing property. Self-healing is intended as the ability to recover under warm sunlight (>30°C) or another source of heat (e.g. heat-gun) from minor or slight abrasion, not to major large scratches.

PROCESSING

Crystal Protect 150 must be applied following the instructions in TB 5.1 "Application guide: Crystal Protect 150", available from the resource section at www.mactacgraphics.eu.

REMARKS

The compatibility with paints and lacquers should be tested by the end-user, prior to use. The compatibility with other application liquids or gels than those recommended in TB 5.10 Application guide: Crystal Protect 150" should be tested by the end-user, prior to use.

SHELF LIFE

Two (2) years when stored at +15 to +25°C and ± 50% relative humidity (in the original packaging).

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Face Material data, 23°C		
Tensile Strength	> 37 MPa	DIN ISO 527-3
Elongation at Break (%)	150%	DIN ISO 527-3

Adhesive data, 23°C (N/25 mm)

Peel adhesion 180° on stainless steel

- 20 min. residence	13	FTM1
- 24 hour residence	16	FTM1

Dimensional stability

Shrinkage (48 hours at 70°C applied on Aluminium)	Max. 0.4 mm	FTM14
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Temperature ranges

Minimum Application Temperature (°C)	+ 10°C
Service temperature range of use (°C)	- 40°C to + 100°C

EXPECTED DURABILITY

	Zone 1	Zone 2	Zone 3
Vertical Exposure	8 years	5 years	2 years
Horizontal Exposure	4 years	2.5 years	1 year

This information is based on artificial aging according to ISO 4892-3.

Exterior boat application with Mactac Sealer: above data reduced by 30%

Zone 1: North, West, Central & Eastern Europe, North America (excl. desert areas of the USA : Arizona, California, Florida, Nevada, New Mexico, Texas, Utah, as well as Mexico which all belong to zone 3)

Zone 2: South Europe, Central & South America, Asia Pacific, Australian South coastal area (from Perth to Brisbane), New Zealand, all geographical area in Zone 1 which are above 1000 meter altitude

Zone 3: Greater Middle East (e.g. Egypt, Israel, Iran, Maghreb countries, UAE, ...), Africa, Australian Desert areas & North of Perth-Brisbane coastal area, USA (Arizona, California, Florida, Nevada, New Mexico, Texas, Utah), Mexico

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

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