

TuningFilm 900 BF – FlexChrome

Technical Data Sheet

PRODUCT DESCRIPTION

TF 900 FlexChrome BF is a 130µm bi-layer polymeric stabilized metallized vinyl film coated with a low tack micro-structured acrylic adhesive.

CONSTRUCTION

Face material :

130 µm matt bi-layer polymeric stabilized calendered vinyl, cadmium-free and lead free composed of a coloured film overlaid on a metallized PVC film.

Adhesive :

Repositionable clear solvent based acrylic adhesive.

Liner :

Highly stable 145 gsm white micro-embossed PE coated paper.

TYPICAL USES

TF 900 FlexChrome BF is designed for Vehicle & Boat Hulls Wrapping (above water line).

The main characteristic of this series is the unique matt chrome effect and the easiness of application, thanks to the excellent repositionability and the micro-structured adhesive used.

EXPECTED DURABILITY

Expected durability of the unprocessed product is up to:

Vertical exposure	Zone 1	Zone 2	Zone 3
colours	5 years	4 years	2.5 years

Horizontal exposure	Zone 1	Zone 2	Zone 3
Colours	3 years	2 years	Not Recom

This information is based on successful real life experience and artificial aging according to ISO 4892-2.

Boat application : above data reduced by 30%

Zone 1: North, West, Central & Eastern Europe, North America (excl. : USA desert's - zone 3)

Zone 2: South Europe, Central & South America, Asia Pacific, Australian South coastal area (from Perth to Brisbane), New Zealand

Zone 3: Greater Middle East, Africa, Australian Desert areas & North of Perth-Brisbane coastal area, USA (Arizona, California, Florida, Nevada, New Mexico, Texas, Utah), Mexico

SHELF LIFE

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

PHYSICAL PROPERTIES (Typical values)

Thickness (mm) (Film + adhesive) ISO 543
0.160

Face Material Data, 23°C DIN ISO 527-3

Tensile strength : > 45 N/15mm

Elongation at break : > 150 %

NB : elongation above 40% could modify original metallization appearance

Adhesive Data, 23°C FTM 1

Peel adhesion 180° on stainless steel (N/25mm)

- 20 min. residence: 18

- 24 hour residence: 20

- 1 week residence: 22

Dimensional stability FTM 14

Shrinkage (48 hours at 70°C) : < 0.6mm

Temperature ranges :

Application : +15°C to + 40°C

End-use : - 40°C to + 90°C

Flammability ISO 3795

Sample mounted on aluminium : self-extinguishing.

Solvent and chemical resistance

Resistant to most oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.

PROCESSING

Clean and degrease the substrate

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. Use soapy water to remove the dust and degrease with isopropyl alcohol.

Application

on flat or slightly curved surfaces

Apply TF 900 FlexChrome BF with the dry application method.

on convex areas

Heat the film with a heat gun before conforming it over the convex area. Use a maximum film temperature of 50-55°C in order to avoid changes in the metallization aspect and change in the gloss level. Once applied, stabilize the film for 1 min. at a temperature of 90°C.

on corrugated or concave areas

Heat the film at a max. of 50-55°C before application. If the film is stretched into a corrugation it may pop-out after a few weeks : we therefore recommend to stabilize the film for a min. of 1 min at 90°C (film temperature) after application and to cut the film in the areas of most deformation. This way the film will be applied in the corrugation without tension.

on rivets

Apply the film over the rivet with high pressure and heat it with a heat gun respecting the temperatures indicated here above. The film may lift slightly after few weeks.

Application on boat

We recommend edge sealing.

Removability

Once heated, TF 900 FlexChrome BF is very easy to remove, leaving almost no adhesive residue on car body. Some adhesive residue may be expected on gel coat boat hulls after film removal. Eventual adhesive residues can be removed with isopropyl alcohol.

Removability is warranted on original manufacturer coatings only.

Important remarks

- Some metallization imperfections (small dark spots, lines) can be present in the product and are not to be considered as a defect. As a consequence, they will not be subjected to claims.
- Compatibility with paints and lacquers should be tested by the end-user, prior to use.
- Rolls from the same production lot number should be used for completing a job as a slight batch to batch variation of colour may occur.
- Handle the TF 900 FlexChrome BF with care as the appearance of the metallized layer could change upon crumpling, overstretching etc.
- Before application, user shall determine the suitability of the product for its intended use and shall accept responsibility to ensure compliance with all laws and regulations concerning the use of TF 900 FlexChrome BF on vehicles, trucks, boats....

The user assumes all risks and liability in connection therewith.



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.