

## PRODUCT DATASHEET

# ECOPROTECT® 500G-X

## Surface Protection Film

for Stainless Steel

**I. Product Description:** ECOPROTECT 500G-X is a self-adhesive film developed for the temporary surface protection of Stainless Steel

- II. Product Construction:**
- Film Type: Polyethylene (PE)
  - Film Colour: Black & White, Clear Transparent, Blue Transparent
  - Adhesive Type: Water Acrylic

- III. Product Application:**
- Stainless Steel Brushed (Matt) - 304 /#4 Finish
  - Interior & Exterior Use



### IV. Product Properties:

Particulars	Test Method	Unit	Values
Thickness		Microns	70
Width	Scale	mm	Up to 1550
Tensile Strength	ASTM D-882	MD (g/mm <sup>2</sup> )	17 – 22
		TD (g/mm <sup>2</sup> )	16 – 19
Elongation at Break	ASTM D-882	MD (%)	550 – 750
		TD (%)	800 – 1000
Adhesion to Stainless Steel	ASTM D-3330	grams/25mm	70 – 150
Roll Length		Linear Meters	Up to 700
Core ID (Inner Diameter)		mm	76



### Key Features



**"Insta-Stick (TM)"** Technology Adhesive Solutions ensure full adhesion power is attained in the shortest possible time, as soon as the film is applied.

No risk of film lifting off during downstream mechanical processes.



**"Glow-Guard (TM)"** Technology. Films come with UV radiation-blocking properties. The film and therefore the surface does not deteriorate due to outdoor UV exposure.

3, 6, 9, or 12 months UV Protection can be provided.



**"Print-Armour (TM)"** Technology Printing & Coatings come with extremely high Scuff Resistance. This guarantees a highly abrasion-resistant film surface so the ink does not fade and "Ghosting" does not occur.



Effortless, uniform, optimal peel-off strength.



Zero risk of any residue (film or adhesive) left behind on the surface.

1

4+ Decades of Manufacturing Experience

2

Public Company - Listed on the Bombay Stock Exchange

3

ISO 9001, 14001, 22000 Certified

4

Annual Capacity of 75 million square meters

**Works & Registered Office:** N.H. No. 8, Waterworks Cross Road, Abrama, Valsad, Gujarat, India - 396002  
**Sales Office:** 1309/1310 Hubtown Solaris, N.S. Phadke Road, Andheri E, Mumbai, Maharashtra, India - 400069



**Ecoplast Ltd.**

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**Surface Protection Film**

for Stainless Steel

### V. Terms & Conditions

#### A) Function

The film provides reliable surface protection against dust, dirt, and moderate abrasion typically encountered during handling, transportation, and storage.

#### B) Storage Conditions

The film should be stored safely at ambient room temperature (between 10°C and 40°C) in a clean, dry atmosphere, away from direct sunlight and moisture. To ensure optimal performance, the film should be applied within 6 months from the date of production. It is recommended to store the film in its original packaging under normal conditions in a well-ventilated room to avoid deterioration, deformation, and contamination.

#### C) Shelf Life

The total shelf life of this protective film is one year from the date of manufacture mentioned on the label by which period the product should be stored, applied and removed.

#### D) Application Conditions

Before application, ensure the surface is clean, dry, and free from grease, oil, dust, solvents, and other contaminants. The film must be applied using a laminating machine on a properly prepared surface. Application should be carried out at temperatures between 10°C (50°F) and 50°C (122°F). To avoid defects, the film should be applied without bubbles or excessive tension—elongation during lamination should not exceed 1%.

#### E) Joints

- Supply Standard: 80% of the rolls with no joints; 20% of the rolls with 1 or more joints.
- Length of joint: Film will overlap 150mm.
- Tensile strength: Min 80% of values specified.
- Options:
  - A) Coloured Joints - for easy identification.
  - B) Seamless Joints - Transparent, heat-sealed, and unidentifiable.

#### F) Printability

The film can be printed in up to three colours. Printed content may include:

- Brand identity and corporate messaging
- Company or product logos and advertising
- Usage guidelines for the protected surface

*Design and graphic support is available upon request.*

#### G) Terms of Usage & Guarantee

Data is given as a guide to a product suggested use. Prospective users are strongly advised to undertake adequate tests under their own conditions on substrates to be used and with reference to the conditions of use of the final product before the above product is adopted commercially. Any changes in these performance parameters should be preceded by similar tests and validation.

These figures are only intended as a guide and should not be used in preparing specifications. The information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials used as well as to varying working conditions beyond our control, we strictly recommend to carry out intensive trials to test the suitability of our products with regard to the required process and applications. We do not accept any liability with regard to the above information or with regard to any verbal recommendation, except for cases where we are liable of gross negligence or false intention.

We recommend that before using our products in full-scale production, the customer should make his own tests to determine the suitability of the products for his own purpose under his operating conditions. As the circumstances under which our products are stored, handled and used, are beyond our control, we cannot assume any responsibility for their use by the customer. The product guarantee is limited to the replacement of the defective product and does not cover any consequential claims

#### H) Film Waste Elimination

Recycling is possible. Dumping or incineration possible under conditions to respect the local or national regulation in force.