DAUGHSON

Engineering the Science of Surface Performance

Product Guide

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Technology Platforms

01 SurfaceBond™ Technology

Advanced adhesion engineering designed to create **strong molecular bonding between substrates and coatings.**

Key benefits:
Enhanced ink adhesion
Improved coating durability
Superior substrate compatibility

Applications:
Metallized paper
Packaging substrates
Specialty papers

02 PrintBridge™ Technology

Technology platform designed to **optimize the interface between substrates and printing inks.**

Key benefits:
Ink anchorage optimization
Improved color vibrancy
Uniform ink transfer
Stable print quality

Applications:
Gravure printing
Flexographic printing
Offset coating

03 EcoPrime™ Water-Based Systems

DAUGHSON's environmentally responsible primer technology platform.

Key benefits:
Water-based chemistry
Low VOC formulations
Safer industrial processing
Sustainable coating solutions

Applications:
Printing & packaging
Industrial Coatings
Wood finishing

04 SmoothLayer™ Surface Preparation Technology

Developed for **wood finishing and decorative coatings.**

Key benefits:
Excellent sanding performance
Superior pore filling
Smooth surface preparation
Enhanced topcoat adhesion

Applications:
Furniture
Wood Panels
Decorative surfaces

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Pre-Metallisation Coating

Pre-Metallisation Coating:

Water-based Pre-Metallization Coating (a strong blend of Primer & Binder) is a **specialized coating applied before aluminium metallization** to improve:

- Metal adhesion
- Surface smoothness
- Gloss after metallization

It acts as an **intermediate adhesion-promoting layer** between substrate and aluminium deposition.

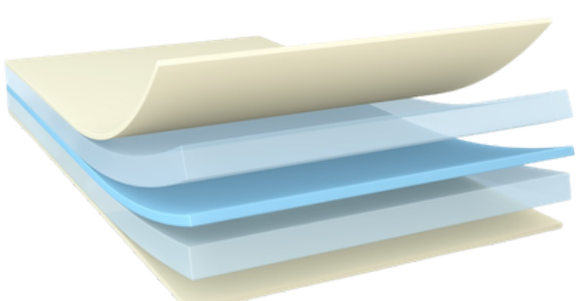
Pre-Metallization Binder is a **high solids water-based binder** used in combination with primer to:

- Control gloss levels
- Improve coating film strength
- Enhance adhesion and durability

It acts as the film-forming backbone of the coating system.

Key Features:

- 100% water-based system
- Block-free coating
- Excellent wetting on substrates
- Strong adhesion to paper
- Excellent adhesion to aluminium
- High gloss after metallization
- Very good water resistance
- Ready-to-use formulation



Product Identification

Parameter	Details
Product Name	Pre-Metallisation Coating WB-100
Product Type	Water-Based Coating
Application	Base coating before vacuum metallization
Technology	Acrylic / Polymer dispersion
Recommended Substrate	Paper
Application Method	Gravure, Mayer bar

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Technical Data Sheet

Usage Ratio: based on gloss requirement:

- **Higher Primer → Higher gloss**
- **Higher Binder → Better adhesion**

Typical Physical Properties

Property	Value
Appearance	Milky liquid
Solid Content	25– 27 %
pH	8 – 10
Viscosity	80-150 sec (Ford Cup B4)
Density	1.02 – 1.05 g/cm³

Application Guidelines

Surface Preparation

- Surface should be clean, dry, and dust free

Application Methods

Method	Recommendation
Gravure	Preffered
Mayer Bar	Suitable

Coating Weight - Typically 1.0 – 2.0 GSM (after drying)

Drying Conditions

Parameter	Hot Air Dry
Typical Value	90 – 100°C

Drying time depends on temperature, humidity, and substrate thickness.

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Technical Data Sheet

Performance Properties

Property	Metal Anchorage	Vacuum Metalisation	Surface Energy Control	Coating Compatibility
Result	Improves	Enhances	High	Excellent

End Use Applications

- Metallized paper for labels
- Gift wraps
- Cigarette packaging
- Decorative laminates
- Food packaging
- Label stock

Packaging

Packaging Type	HDPE Drum	HDPE Drum
Quantity	50 Kg	200 Kg

Storage & Shelf Life

Parameters	Storage Temp.	Shelf Life	Conditions
Details	5 – 35°C	6-12 months	Keep container tightly closed & avoid freezing or prolonged exposure to heat

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