



DAUGHSON

Engineering the Science of Surface Performance

Product Guide

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

Metallized Paper Printing Primers

Metallized Paper Printing Primers

Designed specifically for metallized paper substrates, these primers provide:

- Superior ink adhesion
- Uniform coating layer
- Enhanced color vibrancy
- Excellent compatibility with gravure and flexo inks

Applications:

- Premium packaging
 - Labels
 - Decorative paper
 - High-quality printed materials
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Technical Data Sheet

Water-Based Printable Primer for Metallized Paper

MetPrime WB-100 is a **water-based printable primer designed for metallized paper and metallized substrates**. It enhances **ink adhesion, print quality, and surface wettability** for UV, water-based, and solvent-based inks.

The product provides **excellent gloss, clarity, and resistance to water and oil**, making it suitable for **high-speed printing operations and premium packaging applications**.

Parameter	Details
Product Name	MetPrime WB-200
Product Type	Water-Based Printable Topcoat Primer
Application	Primer for Metallized Paper
Technology	Acrylic / Polymer dispersion
Recommended Substrate	Metallized Paper
Application Method	Gravure, Mayer bar

Key Features and Benefits

Feature	Benefits
Water Based System	Environment Friendly
Excellent Adhesion	Strong bonding on metallised paper
Multi-ink Compatibility	Works with UV, WB & solvent inks
Low Coating Weight	Reduced Coating Cost
Low Foaming	Smooth Coating Finish
High Gloss & Clarity	Premium Paint appearance
Good Water & Oil Resistance	Suitable for Packaging

Technical Data Sheet

Typical Physical Properties

Property	Value
Appearance	Milky white liquid
Solid Content	40 – 45 %
pH	8 – 10
Viscosity	15 – 100 sec (Ford Cup B4)
Density	1.02 – 1.08 g/cm ³
Drying Temperature	70 – 90°C

Application Guidelines

Surface Preparation

Ensure metallized paper is clean and dust free

Application Methods

Method	Recommended Range
Gravure Coating	1 – 1.5 GSM
Mayer bar Coating	1 – 1.5 GSM

Dilution

Can be diluted with deionized water

Drying Conditions

Drying temperature: 70 – 90°C
High-speed printing compatible

Technical Data Sheet

Ink Compatibility

This primer supports printing with:

- UV Flexo Inks
- UV Offset Inks
- Water-based Flexo Inks
- Solvent Based Inks
- Thermal Transfer Printing

Performance Properties

Property	Adhesion	Gloss	Water Resistance	Oil Resistance	Scratch Resistance	Printability
Result	Excellent	High	Excellent	Good	Good	Excellent

End Use Applications

- Beer bottle labels
- Liquor labels
- Chocolate packaging
- Premium food packaging

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	12 months	Keep container tightly closed & avoid freezing or prolonged exposure to heat

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