

## Pre-Metallisation Binder

### Pre-Metallisation Binder:

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:

- Used with primer for gloss control
- 100% water-based
- Block-free
- Excellent wetting & adhesion
- Strong adhesion to aluminum
- High gloss after metallization
- Excellent water resistance
- Ready-to-use

### Product Identification

Parameter	Details
Product Name	Pre-Metallisation Binder WB-400
Product Type	Water-Based Binder
Application	Base coating before vacuum metallization
Technology	Acrylic binder system
Recommended Substrate	Paper, BOPP, PET films
Application Method	Used with primer to adjust gloss & adhesion

# Technical Data Sheet

## Typical Physical Properties

Property	Value	Test Method
Appearance	Milky liquid	Visual
Solid Content	40– 45 %	ASTM D2369
pH	8 – 10	ASTM E70
Viscosity	20–150 sec (Ford Cup B4)	ASTM D1200
Density	1.03 – 1.08 g/cm <sup>3</sup>	ASTM D1475

## Application Guidelines

**Usage Ratio:** Mixed with primer based on gloss requirement:

- **Higher binder** → **Higher gloss**
- **Higher primer** → **Better adhesion**

## Application Methods

Method	Recommendation
Gravure	Preffered
Flexo	Suitable

## Drying Conditions

Parameter	Air Dry	Force Dry	Sanding Time
<b>Typical Value</b>	30–60 min	50 – 70°C	1–2 hours

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

# Technical Data Sheet

## Performance Properties

Property	Films Strength	Coating Flexibility	Metal Anchorage	Gloss	Clarity
Result	Increases	Better control	Enhances	Excellent	Excellent

## End Use Applications

- Metallized packaging films
- Decorative laminates
- Label stock
- Flexible packaging

## Packaging

Packaging Type	HDPE Drum	HDPE Drum	IBC Tank
Quantity	50 Kg	200 Kg	1000 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

## Compatibility

Highly compatible with:

- Primer systems
- Metallization process
- Printing inks