TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

BINDACRYL™ Series – BINDACRYL HB
Printing Binder – Hard / Stiff

Manufacturer: Tusi Haytham Bio Limited

Product Description:
BINDACRYL HB is a high-performance acrylic printing binder designed for applications requiring a firm and stiff finish. It provides excellent adhesion, pigment binding, and a durable surface while imparting a hard, crisp feel to printed substrates. Ideal for specialty printing, labeling, and coatings where a rigid, structured finish is desired.

Key Performance Properties:

- **Provides hard, stiff, and firm finish to printed surfaces.**
- **Excellent pigment binding and adhesion.**
- **Suitable for high-quality printing applications.**
- **Compatible with common printing pigments and auxiliaries.**
- **Ensures uniform application and minimal defects.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Solid Content	35 – 45 %
pH (25 °C)	6.0 – 7.5
Viscosity (25 °C)	200 – 500 mPa·s
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

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Application:

- **Apply BINDACRYL HB via screen printing, roller coating, or other suitable printing techniques.**
- **Typical pickup: 5 – 20 % owf depending on substrate type and desired stiffness.**
- **Cure or dry according to process requirements to achieve optimal hardness and adhesion.**
- **Compatible with pigments, fillers, and other printing auxiliaries; optimize formulation via lab trials.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Do not mix with strong acids or oxidizing agents without dilution.**
- **Store in tightly sealed containers to maintain product quality.**

Packing Size:
Available in 25 kg, 60 kg, and 200 kg HDPE drums.

Storage:

- **Store in a cool, dry, ventilated area below 40 °C.**
- **Shelf life: 12 months from date of manufacture in unopened containers.**
- **Check product label for “Best use before end” date.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: BINDACRYL™ Series – BINDACRYL HB
Category: Printing Binder – Hard