

Technical Data Sheet (TDS)

YDN8080A | Water-Based Melamine-Formaldehyde Resin

Ydnresin | A Division of YDN Group

💷 Last Updated: May 2025

Product Description

YDN8080A is a water-based, low-VOC melamine-formaldehyde resin designed for use in textile finishing, non-woven fabric treatments, decorative coatings, and paper impregnation applications. It features excellent crosslinking performance, low free formaldehyde, and superior compatibility with a wide range of aqueous and polymer dispersion systems.

Typical Properties

Property	Typical Value	Test Method / Notes
Appearance	Clear to slightly hazy liquid	Visual
Solid Content (%)	48–52	DIN EN ISO 3251
Free Formaldehyde (%)	≤ 0.3	ISO 11402
pH (25°C)	8.5–9.5	DIN ISO 976
Viscosity (25°C, mPa·s)	30–150	Brookfield LV, Spindle 1, 60 rpm
Solubility	Fully soluble in water	-
Specific Gravity (25°C)	~1.20 g/cm ³	ASTM D1475
Shelf Life	6 months (sealed container)	Store in a cool, dry place (5–30°C)



Pioneering Performance; Empowering Industry, Since 2002.

Property	Typical Value	Test Method / Notes
Storage Stability	No phase separation or sedimentation	Visual observation

Key Applications

- **Textile Finishing**: Easy-care, wrinkle resistance, durable press
- Non-Woven Fabrics: Binder and strength enhancer
- **Decorative Coatings**: Binder and crosslinker in water-based systems
- Paper Impregnation: Wet strength for printed overlays and laminates
- Adhesive & Binder Systems: When low VOC and water solubility are required

Regulatory & Compliance

Regulation / Standard	Status
REACH (EU)	Compliant, no SVHC > 0.1%
RoHS (EU)	Compliant
ISO 9001 / ISO 14001	Manufactured under certified systems
OEKO-TEX® Standard 100	Suitable for compliant textile systems
EN 71-3	Compatible for child-safe coatings
Formaldehyde Emission	≤ 0.3% (Low-formaldehyde formulation)

Advantages

- VOC-free and formaldehyde-reduced
- High compatibility with polymer emulsions
- Good film hardness and mechanical strength



Pioneering Performance; Empowering Industry, Since 2002.

- Ideal for environmentally regulated markets
- Fast drying and crosslinking under thermal cure

Processing & Handling

- Recommended Curing Temperature: 140–180°C
- Application Methods: Padding, spraying, dipping, coating
- Mixing Compatibility: Acrylic emulsions, urea resins, and polyester dispersions
- Cleaning: Use warm water or mild detergent solutions before drying

▲ Safety & Storage

- Store in a tightly sealed container at 5–30°C
- Protect from freezing and direct sunlight
- Avoid prolonged exposure to air (can increase viscosity over time)
- Refer to Safety Data Sheet (SDS) for detailed handling instructions

Packaging

- 25 kg / 50 kg HDPE drums
- 1000 kg IBC tanks
- Custom packaging available upon request

Contact for Technical Support or Samples

Ydnresin | A Division of YDN Group

Address: No. 2088, Jiuliting Avenue, Caoqiao Street, Pinghu City, Zhejiang Province,

China



Pioneering Performance; Empowering Industry, Since 2002.

Fmail: sales@ydnresin.com

**** Phone / WhatsApp: +86-135-4070-2776 | +86-135-8634-6868

Website: www.ydnresin.com