

Technical Data Sheet (TDS)

YDN535 | High Imino Methyl Etherified Melamine Resin

Ydnresin | A Division of YDN Group

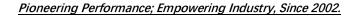
🗰 Last Updated: May 2025

Product Description

YDN535 is a high imino content melamine-formaldehyde resin modified with methyl ether groups. It is designed for crosslinking applications in water-based and solventbased wood coatings, decorative paints, and industrial finishes. Known for its excellent film hardness, thermal stability, and compatibility, YDN535 is a versatile resin choice where fast curing, durability, and chemical resistance are required.

Typical Properties

Property	Typical Value	Test Method / Notes
Appearance	Clear to slightly yellowish liquid	Visual
Solid Content (%)	98–100	DIN EN ISO 3251
Free Formaldehyde (%)	≤ 0.5	ISO 11402
Viscosity (25°C, mPa·s)	100–300	Brookfield LV, Spindle 1, 60 rpm
pH (20% aqueous solution)	7.5–8.5	DIN ISO 976
Solubility	Soluble in water, alcohols	-
Specific Gravity (25°C)	~1.22 g/cm³	ASTM D1475
Shelf Life	12 months (sealed container)	Store at 5–30°C





Key Applications

- Water-based & solvent-based wood coatings
- Decorative topcoats and varnishes
- Furniture, flooring, and MDF finishes
- OEM and DIY coatings for industrial wood surfaces
- Clear, pigmented, or printed finishes

Processing Guidelines

Curing Conditions 120–150°C / 15–30 minutes

Recommended Addition Level 10–30% (based on total binder solids)

Compatible Polymers Alkyd, acrylic, polyester dispersions, amino resins

Mixing & Application Stir before use; apply by spraying, rolling, or dipping

Cleaning of Equipment Use alcohol, acetone, or hot water before curing

Key Performance Features

- High imino content → Fast crosslinking & hard films
- Methyl etherified → Improved shelf stability
- Excellent chemical and solvent resistance
- Outstanding gloss and mechanical durability
- Compatible with aqueous and solvent-borne systems
- Low formaldehyde content for improved safety

Regulatory & Safety Compliance



Pioneering Performance; Empowering Industry, Since 2002.

Standard Status

REACH (EU) Compliant

RoHS (EU) Compliant

ISO 9001 / ISO 14001 Certified production facility

Formaldehyde Release ≤ 0.5% (meets industrial safety limits)

SDS / TDS Availability Upon request in English, Chinese, etc.

Packaging & Storage

- Standard: 200 kg steel drums or 1000 kg IBC tanks
- Custom packaging available on request
- Store in original sealed containers in a cool, dry, ventilated area
- Avoid direct sunlight and freezing

Contact & Technical Support

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