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YDNResin

Formulation / Application Guide: YDN5130 in Industrial Coatings

Product Name: YDN5130

Resin Type: High Imino n-Butyl Etherified Melamine Resin **Applications:** Industrial Coatings (metal, machinery, appliance, general OEM)

Component	Suggested Range	Function
YDN5130 Resin	10–25%	Crosslinking agent for durability and hardness
Acrylic or Polyester Polyol	30–50%	Main film-forming polymer
Pigments and Fillers	15–25%	Color, opacity, and reinforcement
Solvents (e.g., Butanol, Xylene)	10–20%	Viscosity adjustment and sprayability
Catalyst (e.g., p-TSA or DBSA)	0.5–1.0%	Accelerates curing process
Additives (e.g., flow, anti- crater)	1–3%	Enhance appearance and coating stability

Ø Recommended Formulation (by weight %)

Application Methods

- Spray Coating (preferred)
- Roll Coating / Curtain Coating

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• Electrostatic Application (suitable for conductive substrates)

Curing Schedule

Method Temperature Time

Conventional Oven 130–160°C 20–30 minutes

Forced Air Drying 120–140°C 30–40 minutes

Key Performance Advantages

- **v** Excellent hardness and chemical resistance
- **V** Outstanding adhesion to metal substrates
- **Good flexibility** with minimal yellowing
- **V** High crosslinking density for mechanical durability
- **Fast curing** and smooth finish in OEM processes

K Target Applications

- Industrial & Agricultural Machinery Coatings
- Automotive Underbody Components
- Electrical Enclosures & Panels
- Appliance Shells and Tool Casings
- Metal Furniture and General OEM Finishing

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🌾 Packaging & Storage

- Packaging: 200kg steel drums or 1000kg IBCs
- Storage: Store in dry, cool, ventilated area. Shelf Life: 12 months in original, unopened container

Manufacturer:

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