Industrial Coatings

Technical Data Sheet

Laropal® A 101

Product Description	**Laropal® A 101 is an aldehyde resin for pigment dispersions.**
Key Features & Benefits	***- Promotes the natural grain and color of wood*** ***- Good elasticity, adhesion, and hardness*** ***- Excellent toughness***
Chemical Composition	**Condensed products from urea and aliphatic aldehydes**

Properties

Typical Characteristics

Appearance	pastilles
Acid value	≤ 3 mg KOH/g
Iodine color number	≤ 5
Density at 20°C	~ 1.1 g/cm³, 9.26 lbs/gal
Softening range	95 – 110°C
Tg	~ 73°C, 163°F
Hydroxyl value	~ 35 mg KOH/g
Saponification value	~ 62 mg KOH/g

Solubility

Soluble in alcohols, esters, ketones, and aromatic hydrocarbons; insoluble in aliphatic hydrocarbons.

Compatibility

Compatible with nitrocellulose, CAB resins, chlorinated rubber, VC copolymers, acrylic resins, urea-formaldehyde resins, melamine-formaldehyde resins, alkyd resins, epoxy resins, and hydrocarbon resins; limited compatibility with ethyl cellulose.

These typical values should not be interpreted as specifications. Solubility and compatibility should be tested for each individual combination.

Applications

Because of its excellent solubility and compatibility, Laropal® A 101 can be used in many types of coating formulations. Depending on the application, it improves gloss, hardness, body, adhesion, and resistance to yellowing.

Because of its good pigment wetting and very low solution viscosity, Laropal® A 101 can be used for the manufacture of pigment pastes with high pigment content.

Laropal® A 101 is not soluble in aliphatic hydrocarbons and therefore, is suitable for coatings resistant to mineral oils. Because of its relatively low solvent retention, it only leads to a slight increase of the drying time of lacquer finishes (e.g. nitrocellulose).

Laropal® A 101 is recommended for applications such as:

- Interior/exterior general industrial metal coating applications
- Automotive OEM applications

Fields of Application

Nitrocellulose

- Improvement of light fastness, body, and gloss
- Replacement of NC solvents by lower-cost diluents due to very good gelling capacity

Universal pigment pastes

- Suitable as grinding resin because of broad compatibility and universal solubility, low solution viscosity, high pigment binding capacity, and transparency

Powder coatings

- Partial replacement of up to 15% of epoxy/polyester or PUR powder
- Improvement of flow due to low melt viscosity

Performance Properties

	Laropal® A 81	**Laropal® A 101**
Brightness	1	2
Fastness to light	1	1
Heat resistance	1	1
Compatibility	1	1
Soluble in alcohols	1	1
Soluble in aliphatic hydrocarbons	3	5
Suitable for coatings resistant to water	3	3
Suitable for coatings resistant to mineral oils	2	1
Suitable for coatings resistant to saponification	3	3
Solvent release	3	2
Pigment binding capacity	1	2

1 = very good; 5 = insufficient

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of personal protective equipment.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Laropal® A 101.

Important

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