

Laropal[®] A 81

General

Key Features & Benefits

Laropal[®] A 81 is an aldehyde resin for pigment dispersions, can be used in wood coating formulations to improve performance.

Promotes the natural grain and color of wood

Good elasticity, adhesion, and hardness

Excellent toughness

Chemical nature Condensed products from urea and aliphatic aldehydes

Properties

Appearance Solid Particles

Typical characteristics

(should not be interpreted as specifications)

Solubility

Soluble in alcohols, esters, ketones, and aromatic hydrocarbons; aliphatic hydrocarbons – solutions tend to separate at temperatures below 15°C, adding 2-5% of an aromatic solvent produces stable solutions.

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.

Application

Because of its excellent solubility and compatibility, Laropal® A 81 can be used in many types of coating formulation system. Depending on the application, it improves and promotes gloss, hardness, body, adhesion, and resistance to yellowing etc.

Because of its good pigment wetting and very low solution viscosity, Laropal® A 81 can be used for the manufacture of pigment pastes with high pigment content.

Laropal® A 81 is very heat stable and can be used in baking finishes.

Laropal® A 81 is recommended for applications such as:

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

Fields of application

Alkyd resins, air- and oven-drying

- Partial replacement of up to 20% solids on solids
- Improvement of resistance to yellowing through excellent heat stability and lightfastness
- · Improvement of hardness, gloss, body, and flow
- Cost reduction
- Use as modifying component in alkyd resin production

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

Hot melts for road marking and spray plastics

- Suitable as basic resin in combination with suitable plasticizers due to low melt viscosity, good light fastness, and heat stability
- · Improves adhesion to substrates

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

For further detailed application information please contact our Technical Support Department.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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