

# Laropal<sup>®</sup> A 101

**Product description** Universal grinding resin for solvent-based pigment paste preparations.

**Chemical nature** Condensation product from urea and aliphatic aldehydes, bright, resistant to yellowing.

## Properties

**Physical form** Pastilles

<b>Technical data</b> (not supply specification)	Softening temperature	95 – 115 °C
	Iodine color number	≤ 5
	Acid value	≤ 3 mg KOH/g
	Density at 20 °C (68 °F)	~ 1.12 g/cm <sup>3</sup>
	Hydroxyl value	~ 35 mg KOH/g
	Saponification value	~ 62 mg KOH/g
	Glass transition temperature T <sub>g</sub>	~ 73 °C (163 °F)

**Solubility**

Laropal® A 101

alcohols	●
esters	●
ketones	●
aromatic hydrocarbons	●
aliphatic hydrocarbons	○
●	soluble
◐	Solutions tend to separate at temperatures below 15 °C (59 °F), adding 2–5% of an aromatic solvent produces stable solutions.
○	insoluble in aliphatic hydrocarbons but very good diluent tolerance

**Compatibility**

Laropal® A 101

cellulose nitrate	●
ethyl cellulose	◐
cellulose acetobutyrate	●
chlorinated rubber	●
VC copolymers	●
acrylic resins	●
urea-formaldehyde resins	●
melamine-formaldehyde resins	●
alkyd resins	●
epoxy resins	●
hydrocarbon resins	●
●	compatible
◐	limited compatibility

**Properties**

Laropal® A 101

brightness	2
fastness to light	1
heat resistance	1
compatibility	1
soluble in alcohols	1
soluble in aliphatic hydrocarbons	5
suitable for coatings resistant to water	3
suitable for coatings resistant to mineral oils	1
suitable for coatings resistant to saponification	3
solvent release	2
pigment binding capacity	2
1	very good
5	insufficient

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## Application

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

Because of their good pigment wetting and very low solution viscosity, they can be used for the manufacture of pigment pastes with a high pigment content.

Laropal® A 101 is not soluble in aliphatic hydrocarbons and there-fore is suitable for coatings resistant to mineral oil. Because of its relatively low solvent retention, it only leads to a slight increase of the drying time of physically drying finishes (e. g., cellulose nitrate).

### Fields of application    Cellulose nitrate

- Improvement of light fastness, body and gloss
- Replacement of genuine NC solvents by budget-priced diluent solvents due to very good gelling capacity

### Universal pigment pastes

- Very well 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

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## Storage

According to our experience, Laropal® A 101 can be stored for 2 years form the date of delivery if kept temperatures below 40 °C (104 °F). Individual pallets should not be stacked since the pastilles are likely to agglutinate. However, the products' properties are not adversely affected.

### 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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