

Laropal® A 81 MB

Product description	A Biomass balanced universal grinding resin for the manufacture of (solvent-based) pigment pastes that complies with the requirements of the REDcert2 certification of sustainable material flows in the chemical industry.
Key benefits	<ul style="list-style-type: none"> ■ Bright, resistant to yellowing ■ High solubility in most common solvents ■ Universal compatibility with other resin chemistries ■ Excellent pigment binding capacity ■ A Biomass Balance product certified according to the TÜV NORD CERT GmbH. 100% of the fossil feedstock required for this product is replaced by sustainably certified renewable raw materials (Mass Balance approach) ■ For receiving the up-to-date information on the CO2 savings of this product, please contact your sales / technical contact
Chemical nature	Condensation product of urea and aliphatic aldehydes

Properties

Physical form Pastilles

Technical data	Softening point	DIN 53180	80-95 °C
(not supply specification)	Acid value	DIN EN ISO 2114	≤ 3 mg KOH/g
	Iodine colour number	DIN EN 1557	≤ 3
	Density at 20 °C	DIN 53217	~ 1.11 g/cm³
	Hydroxyl value	Calculated	~ 20 mg KOH/g
	Saponification value	Calculated	~ 65 mg KOH/g
	Glass transition temperature		~ 57 °C

Application

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

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

Laropal® A 81 MB is very stable to heat and can be used in baking finishes, causing neither odor nor discoloration.

The use of Laropal® A 81 MB for water-, saponification- and mineral oil-resistant coatings has to be evaluated carefully.

Solubility

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

Compatibility

Laropal® A 81 MB has universal compatibility with most other resin chemistries with the exception of ethyl cellulose which shows limited compatibility.

Formulation guideline

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 fastness to light
- Improvement of hardness, gloss, body and flow
- Cost reduction
- Use as modifying component in alkyd resin production

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

Hot melts for road marketing 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

Storage

According to our experience, Laropal® A 81 MB can be stored for 2 years from the date of delivery if kept temperatures below 40 °C. 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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