

Industrial Coatings

Technical Data Sheet

Luwipal® 066 LF



Product Description	Luwipal® 066 LF is a highly methanol-etherified, melamine-formaldehyde resin for industrial coating applications.
Key Features & Benefits	<ul style="list-style-type: none">- Promotes the natural grain and color of wood- Good elasticity, adhesion, and hardness- Excellent toughness and weatherability
Chemical Composition	Hexamethoxymethyl melamine-formaldehyde resin

Properties

Typical Properties	Appearance	colorless liquid
	Non-volatile matter	~ 96%
	Acid value	≤ 1 mg KOH/g
	Viscosity at 23°C	~ 6,000 cps
	Shear rate D	41.3 s ⁻¹
	Hazen color number	≤ 50
	Density	1.18 g/cm ³ , 9.85 lbs/gal
	Free formaldehyde	≤ 0.3%
Solubility, diluent tolerance	Soluble in ethanol, butanol, ethyl acetate, butyl acetate, methyl ethyl ketone, toluene, xylene, butyl glycol, methylene chloride, 1-methoxy-2-propanol, and (2-methoxymethylethoxy) propanol; limited solubility in methanol and white spirit; soluble in water after the addition of acid.	
Compatibility (1:1, solids on solids)	Compatible with many acrylic dispersions, polyvinyl alcohol, nitrocellulose, and short to medium oil non-drying alkyds, many acrylic resins, urea-formaldehyde resins, and melamine-formaldehyde resins.	

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

Applications

Luwipal® 066 LF is a highly methanol-etherified, melamine-formaldehyde resin that is particularly suited as a crosslinking component for coil and can coatings. Due to its low viscosity, it is also suited for high solids coatings.

Luwipal® 066 LF is recommended for applications such as:

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

Processing	Since Luwipal® 066 LF cures to produce brittle films, formulations must contain some form of plasticizing co-binder. It can then be used to formulate acid-curable finishes as well as baking finishes.
-------------------	---

In baking finishes, the resins have low reactivity and require baking temperatures above 150°C (300°F). Adding 1 – 2% of p-toluenesulfonic acid based on melamine-formaldehyde solids reduces curing temperatures but reduces shelf life. Use of blocked catalysts increases shelf life and commercially available.

With small amounts of low molecular-weight alcohols, Luwipal® 066 LF can be diluted with water. Small amounts of acid will improve its solubility in water even further.

Solvent-type acid-curing paints can be formulated with Luwipal® 066 LF blended in ratios of up to 1:1 with short to medium oil, non-drying or semi-drying alkyd resins. A suitable catalyst is p-toluenesulfonic acid added in proportions of 10 – 15%, based on melamine-formaldehyde resin solids. The coatings will have improved resistance to chemicals than those obtained from urea-formaldehyde resins.

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 protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Luwipal® 066 LF.

Important

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS.** In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further, the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained all such being given and accepted at the reader's risk.

Luwipal is a registered trademark of BASF Group.

© BASF Corporation, 2016



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.

For more information on Responsible Care® go to:

U.S.: www.basf.us/responsiblecare_usa

Canada: www.basf.us/responsiblecare_canada

México: www.basf.us/responsiblecare_mexico

U.S & Canada

BASF Corporation
24710 W Eleven Mile Road
Southfield, MI 48033
ph: 1(800) 231-7868
fax: 1(800) 392-7429
Email: Custserv_charlotte@basf.com
Email: edtech_info@basf.com
www.basf.us/dpsolutions

Mexico

BASF Mexicana, S.A. de C.V.
Av. Insurgentes Sur # 975
Col. Ciudad de los Deportes
C.P. 03710
Mexico, D.F.
Phone: (52-55) 5325-2756
Fax: (52-55) 5723-3011