GELKYD[®] 4635 WD 51 (FORMERLY GELKYD[®] 9135 WD 51)

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details	GELKYD [®] 4635 WD 51 is a soft gel polyamide modified thixotropic alkyd for u decorative coatings. It has a reduced odour, is to be used as a co-binder for medium and long-oil is a highly condensed resin, it prevents the penetration of the formulation into p It is very efficient for wetting pigments and fillers. GELKYD [®] 4635 WD 51 has been designed for use in matt and satin-finish paint	alkyd resins. As it porous substrates.	
Polymer Type	Thixotropic Alkyd		
Sales Specifications	Solid Content at 125°C, %	50 - 53	
	Reduced Viscosity at 25°C, mPa.s (solution at 40% in D40, at 2500 s-1) (ISO 3219) 350 - 550		
	Colour, Gardner scale (ISO 4630)	8 max	
	Acid value, mg KOH/g (ISO 2114)	15 - 23	
Other Characteristics ¹	Appearance	Soft gel	
		atic white spirit	
	Flash point, °C (ISO 3679) Density / Specific Gravity at 20°C, g/ml (ISO 2811)	<u> </u>	
	Type of fatty acid	Semi-drying	
	Fatty Acid content, %	61	
	Note: Acid value and/or Hydroxyl value quoted relative to solid resin		
	1 The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications		
Formulation Guidelines	INCORPORATION The preferred method for incorporating GELKYD® 4635 WD 51 is to add the molten resin to the mill base prior to the addition of any remaining alkyd and other components f the formulation. The advantages of using the resin in the molten state include a) easy addition and incorporation, b) low shear can be used, c) reduced tendency for non-dispersed thixotropic resin to be present. DRIERS GELKYD® 4635 WD 51 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing GELKYD® 4635 WD 51 is: 0.06% cobalt, 0.09% zirconium and 0.1% calcium calculated as metals on solid resin. Depending on the formulation (clear, pigmented, etc) and on the application, the loading of each drier may be increased or reduced in order to achieve the appropriate drying/hardness profile. The use of an anti-skinning agent is essential to prevent in-can skinning of the finished product. <u>COMPATIBILITY</u> GELKYD® 4635 WD 51 is compatible with most other thixotropic alkyds, urethane alkyds, long and medium oil length alkyds, oleo-resinous varnishes, hard resins and drying oils. Polar solvents should be avoided as they can impair the thixotropy of the GELKYD® .		



Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage &	GELKYD [®] 4635 WD 51 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided.
Handling	In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

Arkema has implemented a Medical Policy regarding the use of Arkema products in medical devices applications that are in contact with the body or circulating bodily fluids (http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html) Arkema has designated medical grades to be used for such medical device applications. Products that have not been designated as medical grades are not authorized by Arkema for use in medical device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

Arkema Coating Resins

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France arkema.com - arkemacoatingresins.com

