# **GELKYD® 320 WD 50**

### **ARCHITECTURAL COATINGS**

### **ARKEMA COATING RESINS**

## Product It has a reduce Application details after shearing.

GELKYD® 320 WD 50 is a strong gel polyamide modified thixotropic alkyd for use in all types of decorative coatings.

It has a reduced odour, is to be used as a co-binder and exhibits a very rapid recovery of structure after shearing.

GELKYD<sup>®</sup> 320 WD 50 has been designed for use in smooth or stippled semi-gloss paints depending on the choice of the Newtonian resin as well as gloss paints and all undercoats.

## Polymer Type

Thixotropic Alkyd

## **Sales Specifications**

 Solid Content at 125°C, % (ISO 3251)
 49 - 51

 Reduced Viscosity at 25°C, mPa.s (solution at 30% in D40, at 10000 s-1) (ISO 3219)
 50 - 95

 Colour, Gardner scale (ISO 4630)
 8 max

 Acid value, mg KOH/g (ISO 2114)
 5 - 10

## Other Characteristics<sup>1</sup>

Appearance	Strong gel
Volatile	Low aromatic white spirit
Flash point, °C (ISO 3679)	40
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.90
Type of fatty acid	Linoleic rich
Fatty Acid content %	60

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

### **INCORPORATION**

The preferred method for incorporating GELKYD® 320 WD 50 is to add the molten resin to the mill base prior to the addition of any remaining alkyd and other components of 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

## Formulation Guidelines

GELKYD® 320 WD 50 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing GELKYD® 320 WD 50 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.

## **COMPATIBILITY**

GELKYD® 320 WD 50 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® .



<sup>1</sup> The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage & Handling	GELKYD® 320 WD 50 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.  In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date

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