

# SUPER GELKYD® 6006 WDA 55

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

SUPER GELKYD® 6006 WDA 55 is a highly structured thixotropic flexible resin, based on urethane-urea technology and has been especially developed for imparting thixotropy into exterior, highly durable decorative coatings.

The resin is supplied in low aromatic high flash white spirit to enable the formulation of coatings that do not require adverse environmental labelling.

SUPER GELKYD® 6006 WDA 55 should be used at levels between 15 & 50% calculated on total solid binder to achieve a wide range of thixotropy ranging from slightly structured to full gel. It is suitable for use in all types of exterior solvent-based decorative coatings. It is especially recommended for use in combination with the flexible alkyd SYNOLAC® 6005 WDA 70 to produce extremely durable exterior coatings.

## Product Application details

## Polymer Type

- Thixotropic Alkyd

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	54 - 56
Viscosity at 25°C, mPa.s (at 2500 s-1) (ISO 3219)	500 - 800
Colour, Gardner scale (ISO 4630)	9 max

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

Appearance	Strong gel
Volatile	Low aromatic high flash white spirit
Flash point, °C (ISO 3679)	64
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.89
Type of fatty acid	Linoleic rich
Fatty Acid content, %	60

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

## ACTIVATION

It is important to note that full structure is attained only with the addition of a polar activating solvent - added at the end of paint manufacture. Glycols, such as propylene glycol, and glycol ethers, such as propylene glycol monomethyl ether, have been found to be most appropriate for this purpose. Normally between 2.5 & 5% of polar solvent calculated on total solid resin is added depending on the actual solvent used.

For more information, consult ARKEMA's guide "Thixotropic resins for Decorative Coatings".

## DRIERS

SUPER GELKYD® 6006 WDA 55 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SUPER GELKYD® 6006 WDA 55 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

SUPER GELKYD® 6006 WDA 55 is compatible with most long and medium oil alkyds, and with most long oil urethane oils and alkyds.

## Formulation Guidelines

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**Product Safety**

Please refer to the corresponding Safety Data Sheet.

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**Storage & Handling**

SUPER GELKYD® 6006 WDA 55 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 9 months from the shipping date

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See SDS for Health & Safety Considerations.

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For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

**Arkema Coating Resins**

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - [arkemacoatingresins.com](http://arkemacoatingresins.com)

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