SUPER GELKYD® 6008 WD 45

ARCHITECTURAL COATINGS — ARKEMA COATING RESINS

Product Application details

SUPER GELKYD® 6008 WD 45 is a pumpable thixotropic alkyd especially designed for use in high durability exterior coatings.
It combines the proven durability of SYNOLAC® 6005 WDA 70 with the rheological control of the SUPER GELKYD® technology. The result is a flexible thixotropic resin supplied in bulk that can be used as sole binder or alternatively blended with SYNOLAC® 6005 WDA 70.
The resin is supplied in low aromatic white spirit to enable the formulation of coatings that do not require adverse environmental labelling.
SUPER GELKYD® 6008 WD 45 can be formulated with polar solvents, alkyds (whatever their polarity) and a wide range of difficult pigments, which are not compatible with polyamide-based products.
The resin is primarily recommended for use in thixotropic exterior decorative coatings woodstains, where it may be incorporated as the major proportion of the binder according to the structure required.

Polymer Type

- Thixotropic Alkyd

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	44 - 46
Viscosity at 25°C, mPa.s (at 2500 s-1) (ISO 3219)	300 - 500
Colour, Gardner scale (ISO 4630)	8 max

Other Characteristics[1]

Appearance	Slightly hazy, pumpable thixotropic resin
Volatile	Low aromatic white spirit
Flash point, °C (ISO 3679)	40
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.88
Type of fatty acid	Linoleic rich
Fatty Acid content, %	52
Gel Strength at 25°C, internal method LQ 37, g.cm	80 - 200

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

Formulation Guidelines

ACTIVATION

The full structure is attained only with the addition of polar solvent, at the end of paint manufacture. Propylene glycol is the preferred activating solvent. Normally between 2-3% of propylene glycol, calculated on total solid resin content, is sufficient to fully develop the structure. In thixotropic paints based on polyamide technology, the presence of highly polar solvents such as alcohols would destroy structure, the presence of alcohols in SUPER GELKYD® 6008 WD 45 based coatings is crucial to structure and development.

DRIERS

SUPER GELKYD® 6008 WD 45 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SUPER GELKYD® 6008 WD 45 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.

STORAGE REMARK

The aspect end of this grade can differ from drum to drum, depending on the production and storage/transportation history. This is inherent to SUPER GELKYD® 6008 WD 45 and does not alter the application properties after activation.

SUPERGELKYD BY ARKEMA

Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage & Handling	SUPER GELKYD® 6008 WD 45 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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