

Urethanated Alkyd Resin

Description

ALK 3151 60 is an isocyanate-modified alkyd resin which is especially suitable for formulation of fast drying colourless or pigmented, DIY and decorative paints. The paint films have high mechanical strength, hardness and longterm flexibility. They have good resistance to water, household cleaning agents and many chemicals.

Suggested uses

Hard Wearing wood finishes, Parquet sealers
Fast drying synthetic resin coatings
Industrial primer surfaces

Compatibility

Drying Oil	Compatible
Stanoil , Cold	Compatible
Nitrocellulose	Compatible
Zinc white	Compatible
Maleic resin	Partially Compatible
Phenol Modified resin	Partially Compatible
Urea resin	Incompatible
Melamine resin	Incompatible

Solubility / Thinnability

Aliphatic Hydrocarbons
Aromatic Hydrocarbons
Terpene Hydrocarbons
Esters
Ketones
Glycol ethers
Insoluble in Alcohols

ALK 3151 60 Typical Physical and Chemical Properties

Solvent	MTO/WS
Acid Value (mg Koh/gm)Max.	10
Reducer	50 % in MTO/WS
Colour in Gardner Scale Maximum.	8
Viscosity @30°C in sec. B4 ford cup	60 - 90
Solid Contents in % , 120 C/1 Hr.	59 - 61

Recommended Drier Combination

0,05 - 0,15 % Calcium 4%
0,03 - 0,04 % Cobalt 6%
0,60 - 1,00 % Zirconium 18%
The metal content is always calculated on the solvent free i

Suggested Anti-skinning

0,7 to 1,3 % Calculated on the solvent free binder. Methylketoxime has proved ideal .

Storage

When Stored in sealed containers at temperatures not exceeding 30 C, the product will remain stable for at least 6 months. Exposure to sun shine should be avoided.

Packing Codes

PAC 1000 Bulk tankers Mild steel
PAC 0011 Iso Tank
PAC 1010 Steel Closed head drums 190 Kgs net
PAC 5010 Second hand Steel Closed head drums 190 Kgs
* Special packing also available on request

Wood Finishes

Rapid drying, excellent film hardness, high abrasion resistance and good long term flexibility make it ideal formulation of parquet sealers, finishes for chairs and benches, coatings for window frames and other coatings for indoor and outdoor use, because of the good water resistance of coatings they are also suitable for use in marine paints, It can be matted with standard matting agents. It has good compatibility with long oil alkyd resins, Combination with such resins increase the solid contents and thus the potential dry film thickness of coatings. Coatings based on this resin dry to form defect-free films on most tropical woods so no special impregnation is necessary before hand. However, given the many different types of tropical woods and their very different properties, trials should always be carried out.

Fast-drying DIY and decorative paints it has good compatibility with standard pigments, including alkaline products. Pigmented coatings in which it is the sole binder are ideal for indoor application. Combination in a 1 : 1 ratio with other long-oil alkyd resins, , yields DIY paints with good impact resistance. Gloss retention and chalking resistance improve with increasing long-oil alkyd resin content.

Silk-gloss coatings

Pigmented silk-gloss coatings with very short drying times and high mechanical strength can be formulated with it as the sole binder and in combination with it . The coatings can be applied by brushing, rolling, spraying and airless spraying. If larger amounts of thixotropic resins are added, good brushability is still achieved (lap time:5 - 7 min) despite the short drying time.

Important

Coatings based on it can be applied by brushing, rolling or spraying. Spraying must be carried out in water-rinsed spray booths. Spray mists must be regularly removed to prevent ignition.

Safety

Hazards identification

Flammable. Repeated exposure may cause skin dryness or cracking Vapours may cause drowsines and dizziness. The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

Version 01

Date of issue:01/01/13

Supersedes : __

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