PRODUCT DATA SHEET

ESGAL 4003

ESGAL 4003 is a solvent based Medium Oil Alkyd Resin based on Soya Fatty Acid having good color fastness, body, durability, MTO Tolerance and high gloss potential. It is known for its green attributes like biobased raw materials and optimal recycle contents.

This Resin is diluted in Xylene and is recommended for use in solvent-based air-drying and industrial coatings and baking enamel products. It offers very fast drying with and without driers.

Product Data:

- Appearance : Transparent Viscous Liquid
- Oil Length : 42 ± 2
- Solid Content : 70±2 (120°C, 1h)
- Specific Gravity : 1.04±0.02(30°C)
- Acid Value : Max. 20 (mg KOH/g)
- Viscosity (50% in Xylene) : 120 – 150 Sec (B4 Cup/30°C)

SOLUBILITY:

ESGAL®4003 is soluble in esters, ketones, higher alcohols, aromatic hydrocarbons and is insoluble in aliphatic hydrocarbons and water.

COMPATIBILITY:

ESGAL®4003 is compatible with amino resins, nitrocellulose, medium molecular weight epoxy resins, phenolic resins etc.

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APPLICATIONS:

ESGAL®4003 is very light colour, extremely fast drying oxidizing alkyd resin giving outstanding toughness and durability. It can be used in acid catalyzed wood lacquers where its excellent properties of gloss, hardness and water resistance will improve the performance of the lacquer. ESGAL®4003 gives high gloss and through drying properties. It is most suitable for primers for ferrous and light metals and insulating varnishes. ESGAL®4003 is recommended for general purpose fast drying baking enamels for industrial equipments, machineries, household appliances, farm implements and other miscellaneous requirements not demanding absolutely non-yellowing and colour stable properties.

Performance Highlights :

Provides:

- MTO Tolerance
- Good Film built and toughness
- Excellent Gloss & Gloss retention
- Good Adhesion

Drying Time:

With 1.6% Zirconium (18%), 0.42% Cobalt (12%) & 0.5g Calcium (6%) in Alkyd Resin (50% diluted with Xylene), drying time @30°C on glass plate (Sheen Film Applicator, 78 micron) has been found :

- Surface Dry : ≤ 30 min
- Tack-Free Dry : 2 - 4 hrs
- Hard Dry : 10-12 hrs

*Drying time is related to relative humidity

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Storage & Stability:

Highly recommended to store indoors in the original, unopened and undamaged containers in a dry place at storage temperatures between 5 & 30°C. Exposure to sun shine should be avoided.

Under the above-mentioned storage conditions, stability of the resin will be 12 months ex-work.

Contact

For feedback or further information, please feel free to contact us at info@tulonmaterials.com.

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