

SYNOLAC[®] O3X

Saturated (Oil Free) Polyester

ARKEMA COATING RESINS

Product Application details SYNOLAC[®] O3X is a branched polyester for use in combination with amino- and/or prepolymerised isocyanate resins in high quality stoving enamels. SYNOLAC[®] O3X has good adhesion to metal substrates such as steel, tin, and aluminium.

Performance Benefits

- Good hardness with flexibility
- Good exterior durability
- Good adhesion
- Good gloss retention
- Chemical resistances
- Low over-baked yellowing

Polymer Type

- Solventborne Polyester

Sales Specifications

| | |
|--------------------------------------|---------|
| Solid Content at 125°C, % (ISO 3251) | 70 - 72 |
| Viscosity at 25°C, Gardner Holdt | Z3 – Z4 |
| Colour, Gardner scale (ASTM D1544) | 1 max |
| Acid value, mg KOH/g (ISO 2114) | 4-10 |

Other Characteristics¹

| | |
|---|--------|
| Volatile | Xylene |
| Density / Specific Gravity at 25°C, g/ml (ISO 2811) | 1.06 |
| OH Value, mg KOH/g | 75 |
| Hydroxyl Context, % | 2.27 |

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

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

RECOMMENDATIONS FOR USE

SYNOLAC[®] O3X is recommended for use in primer/topcoat for domestic appliances, heating panels, refrigerators and electrical fittings.

SYNOLAC[®] O3X will react with most melamine formaldehyde resins at ratio of between 70:30 and 85:15 (polyester: amino)

Formulation Guidelines

SOLUBILITY

| | |
|-----------------------|-------------|
| Ester | Complete |
| Ketone | Complete |
| Glycol Ether | Complete |
| Aromatic hydrocarbon | Partial |
| Alcohol | Partial |
| Aliphatic Hydrocarbon | Not Soluble |

COMPATIBILITY

| | |
|-------------------|-----------|
| Isocyanate Resins | Very Good |
| Melamine Resins | Very Good |
| Phenolic Resin | Good |
| Polyester Resins | Good |
| Epoxy Resins | Good |
| Urea Resins | Fair |
| Acrylic Resins | Fair |

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® O3X should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 35°C. Exposure to direct sunlight should be avoided.

In the above mentioned storage conditions the shelf life of the resin will be 12 months.

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