

TECHNICAL DATA SHEET

SYNOLAC® O3X

Oil free polyester

PRODUCT APPLICATION DETAILS

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

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	70 - 72	ISO 3251
Viscosity (25°C, Gardner)	Z3-Z4	Gardner-Holdt
Color (Gardner)	Max. 1	ASTM D-1544
Acid value (mg KOH/g)	4 - 10	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Xylene	-
Density (25°C, g/mL)	1.06	-
Hydroxyl content (%)	2.3	-

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

MARKETS

Coatings & Inks

- Industrial Coating
 - General Industry
 - Industrial Wood Finishes

PERFORMANCE BENEFITS

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

SYNOLAC® O3X

FORMULATION GUIDELINES

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)

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 AND 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.

Arkema Coating Resins Malaysia
PLO 491, Jalan Keluli, Pasir Gudang
Industrial Estate, 81700 Pasir Gudang,
Johor – Malaysia
T +60 7 253 6688

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

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