

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

PERFORMANCE BENEFITS

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

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.

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