

TECHNICAL DATA SHEET

SYNOLAC® O21NBG

Oil free polyester

PRODUCT APPLICATION DETAILS

SYNOLAC® O21NBg is a saturated polyester recommended for the coil coating industry for cost effective backers and exterior topcoats.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	69 - 71	ISO 3251
Viscosity (25°C, Gardner)	Z3Z4 - Z4Z5	Gardner-Holdt
Color (Gardner)	Max. 2	ASTM D-1544
Acid value (mg KOH/g)	Max. 10	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Aromatic 100	-
Density (25°C, g/mL)	1.08	-
Hydroxyl content (%)	1.5	-

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
 - Coil
 - General Industry

PERFORMANCE BENEFITS

- Capable of curing at high line speeds
- Combines good weatherability with good flexibility
- Gives good gloss and good flow
- Excellent colour stability
- Good adhesion to PU foam
- Excellent corrosion resistance

SYNOLAC® O21NBG

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® O21NBg based coatings should be modified with hexamethoxymethylmelamine (HMMM) at a resin solids ratio of between 80:20 and 90:10 polyester:amino resin. A typical curing schedule is 30-60 seconds at 230-240°C peak metal temperature.

The temperature and times will vary according to the type and gauge of the metal substrate being used.

The addition of a catalyst such as Nacure® 3525 ⁽¹⁾ at 0.1-0.2% can assist in increasing cure rate.

Notes: ⁽¹⁾ King Industries

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® O21NBG 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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