

# SYNOLAC<sup>®</sup> O21NBg

Saturated (Oil Free) Polyester

ARKEMA COATING RESINS

**Product Application details** SYNOLAC<sup>®</sup> O21NBg is a saturated polyester recommended for the coil coating industry for cost effective backers and exterior topcoats.

## 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

## Polymer Type

- Solventborne Polyester

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	69 - 71
Viscosity at 25°C, Gardner Holdt	Z3Z4 – Z4Z5
Colour, Gardner scale (ASTM D1544)	2 max
Acid value, mg KOH/g (ISO 2114)	10 max

## Other Characteristics<sup>1</sup>

Volatile	Aromatic 100 / butyl glycol
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.08
Hydroxyl Context, %	1.50
Hydroxyl Value, mg KOH/g	50

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

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

## Formulation Guidelines

### RECOMMENDATIONS FOR USE

SYNOLAC<sup>®</sup> 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<sup>®</sup> 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 & 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.

---

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See SDS for Health & Safety Considerations.

The products described in the document are not Medical grades designated for Medical Device applications.

Arkema has implemented an internal Medical Policy regarding the use of Arkema products in Medical Devices applications. Arkema has designated Medical grades to be used for Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications. In addition, except for limited cases as determined by the Medical Device Policy, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days.

For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

**Arkema Coating Resins Malaysia Sdn Bhd**

PL0 491, Jalan Keluli, Pasir Gudang Industrial Estate,

81700 Pasir Gudang, Johor, Malaysia.

arkema.com - [arkemacoatingresins.com](http://arkemacoatingresins.com)

**ARKEMA**  
INNOVATIVE CHEMISTRY