

## COATING RESINS

### TECHNICAL DATA

### SYNOLAC 6005 W 65

#### SALES SPECIFICATION

Non-volatile content, % @ 150°C	64-66
Viscosity CPS at 25°C (Brookfield Viscometer, Spindle No.4 RPM 20)	1700-2300
Colour, Gardner scale (ISO 4630)	≤5
Acid value, mg KOH/g (ISO 3682)	5-10

#### OTHER PROPERTIES

Volatile	White spirit
Flash point, °C (ISO 3679)	37 (typical)
Density at 25°C (ISO 2811)	0.93
Type of fatty acid	Linoleic rich
Fatty acid content, %	60

#### PRODUCT INFORMATION

**SYNOLAC 6005 W 65** is a flexible polymer developed for exterior paint and varnish systems requiring maximum extensibility and resistance to age embrittlement when applied to wood. Excellent resistance to chalking and cracking and excellent durability and gloss retention are key features of finishes based on this product.

#### RECOMMENDATIONS FOR USE

**SYNOLAC 6005 W 65** can be used in the formulation of primers, undercoats and gloss finishes. It can also be used as a clear varnish or in varnish stains. The polymer possesses a high degree of elasticity to enable it to tolerate the natural movement of the wood substrate without cracking or losing adhesion. The polymer can also be used in the development of coatings possessing controlled moisture vapour permeability.

Exterior wood coatings need more than a high durability resin to provide adequate protection. The use of UV absorbers and hindered amine light stabilisers is strongly recommended in clear exterior varnishes to protect the wood surface. Furthermore, non-hazardous biocides to prevent algal and fungal growth should be included in all exterior coatings based on **SYNOLAC 6005 W 65**. Further advice on formulating with this product can be obtained by contacting Cray Valley.

**SYNOLAC 6005 W 65** requires metallic driers to accelerate the autoxidation process. A suitable combination based coatings is 0.05% Cobalt, 0.15% Zirconium and 0.2% Calcium, calculated as metals on total solid resin. Slight variations in the zirconium and calcium drier levels may be appropriate for particular paint systems.

To prevent skinning of the coating in the can, volatile anti-skinning agents such as methyl ethyl ketoxime are recommended. 0.2-0.5% calculated on resin solids is usually adequate for both clear and pigmented finishes.

**SYNOLAC 6005 W 65** is compatible with long and medium oil alkyds, thixotropic alkyds, chlorinated rubber and nitrocellulose. It is partially compatible with short oil alkyds. However, to ensure maximum use is made of the specialised properties of the product, it should be used as the sole binding medium or, for structured coatings, in conjunction with the flexible thixotropic alkyd, Super Gelkyd 6006 WD 55.

#### PRECAUTIONS FOR USE

Please refer to the corresponding Safety Data Sheet

**SYNOLAC 6005 W 65** should be stored in the original containers in a dry place at temperatures between 5°C and 30°C. Avoid exposure to direct sunlight or frost. Under these conditions the product may be stored for up to 12 months.