

TECHNICAL DATA SHEET

SYNOLAC® 655W-55

Modified alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 655W-55 is a urethane alkyd designed for use in clear and pigmented finishes as the sole medium or in combination with long oil alkyds. Rapid drying and excellent gloss retention, together with good abrasion resistance and colour retention are achieved with paints incorporating even minor proportion of SYNOLAC® 655W-55.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	53 - 57 %	ISO 3251
Viscosity (Brookfield viscometer) (at 25°C)	14 - 20 P	
Color	6 max Gardner	ISO 4630
Acid value	3 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	MTO	
Density (at 20°C)	0.93 g/ml	ISO 2811
Fatty acid type	Linoleic	
Fatty acid content	61 %	

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

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
 - Protective Coating
 - Wood Furniture

PERFORMANCE BENEFITS

- Excellent gloss retention
- Excellent drying rate
- Good abrasion resistance
- Good color retention

SYNOLAC® 655W-55

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® 655W-55 can be used in decorative gloss or eggshell finishes and should comprise between 20 – 50 per cent of the media, the balance being a suitable long oil alkyd. In thixotropic decorative gloss and eggshell finishes, similar percentage can be used. Abrasion resistant and rapid drying finishes are obtained with a durability, pigment wetting and non-chalking characteristics of the alkyd resin being retained. In floor varnishes and related finishes, SYNOLAC 655W-55 is recommended for use as the sole medium

SOLUBILITY:

SYNOLAC® 655W-55 is soluble in aromatic and aliphatic hydrocarbons, ketones and esters.

COMPATIBILITY:

SYNOLAC® 655W-55 is compatible with all long oil alkyds and thixotropic alkyd resins.

DRIERS:

A suitable combination of driers for use with SYNOLAC® 655W-55 is 0.05% cobalt, 0.15% zirconium and 0.2% calcium calculated as metals on solid resin. Slight variation in the zirconium and calcium drier levels may be appropriate for particular paint systems.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 655W-55 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided. In the above mentioned storage conditions the shelf life of the resin will be from the date of manufacturing.

Shelf Life (Months): 12

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