

COATING RESINS

TECHNICAL DATA

SYNOLAC1077WD(60%)

SALES SPECIFICATION

Non-volatile content, % @ 150°C	58 - 62
Viscosity in CPS at 25°C (Straight) (By Brookfield Viscometer Spindle No.4 RPM20)	5000 - 6500
Colour, Gardner scale (ISO 4630)	≤ 6 Gardner
Acid value, mg KOH/g (ISO 3682)	≤1

OTHER PROPERTIES

Volatile	MTO
Non-volatile content, % @ 150°C	60
Flash point, °C (ISO 3679)	42
Density at 20°C (ISO 2811)	0.913
Oil or Fatty Acid Type	Linoleic
Oil Length in %	66%

Note –Acid Value quoted relative to solid resin

PRODUCT INFORMATION

UNITHANE 1077WD(60%) UNITHANE 1077WD(60%) is a Long oil Urethane alkyd resin ; which is made in combination with Pentaerythritol. UNITHANE 1077WD(60%) is specially recommended where the choice is of air drying paint or lacquer which is having good abrasion resistance good colour retention, good gloss retention even by adding very small proportions. This resin is available in 60% solids. Particular advantage gained by using this resin include:

- Excellent colour and colour retention.
- Excellent Gloss and gloss retention.
- Good abrasion resistance.
- Good Chemical and Water Resistance.
- Good rapid drying.
- Good Durability.

Recommendations For Use:

UNITHANE 1077WD(60%) can be used in both clear and pigmented system: To accelerate the drying potential of clear varnishes, based on UNITHANE 1077WD(60%) as the sole binder 0.02% Cobalt drier is normally sufficient. In pigmented system, and where other co-binders are employed a suitable Combination of driers is 0.05% Cobalt, 0.15% Zirconium and 0.2% Calcium calculated as metal on solid resins content are recommended.

COMPATIBILITY : UNITHANE 1077WD(60%) is compatible with all long And some medium oil alkyd resins. It is not compatible with short oil alkyds chlorinated rubber, NC resins, and vinyl resins.

Solubility:

UNITHANE 1077WD(60%) is completely soluble in aromatic aliphatic hydrocarbons , ketones and esters. It does have limited solubility in alcohols like butanol, isopropanols.

Uses:

UNITHANE 1077WD can be used in decorative gloss or eggshell finishes and should comprise between 15-50 percent of the media the balance being a suitable long oil alkyd. In thixotropic decorative gloss and eggshell finishes, similar percentages 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 by adding this resin. In floor varnishes and related finishes. UNITHANE 1077WD(60%) recommended for single packed wood finish.

UNITHANE 1077WD(60%) should only be used in applications Consistent with the above recommendations. Proposals to use resin in other Way should be discussed with the Cray Valley before any action taken.

Storage:

UNITHANE 1077WD(60%) should be stored at temperatures between 5°C

CRAY VALLEY

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