

Polygel GA 801 W40

Type

Thixotropic modified alkyd resin

Supply form

40% solid in white spirit

Suggested applications and properties

Polygel GA801 is suitable for anticorrosive primers, decorative enamel as well as thick layer wood glazing.

GA801 also suitable for formulating the wiping filler.

This resin require polar solvent for the construction of the full thixotropic properties. The polar solvent should not be added until the dispersing state completed.

Typical Characteristics

Oil type
Solvent
Non-volatile content
Viscosity at 25°C
Maximum acid value (mgKOH/gm)
Maximum Gardner colour
Specific gravity at 25°C

GA801 W40

Linoleic rich
White spirit
40±2%
thixotropic soft gel
15
9
0.94

Compatibility

Polygel GA801 is compatible with most medium and long oil alkyds. It is also compatible with oleoresinous varnishes, drying oils and polymerized (stand) oils of low and medium viscosity. Not compatible with short oil alkyds.

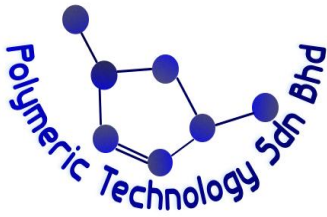
The information given is to the best of our knowledge true and accurate but any recommendations or suggestions made are without guarantee since the conditions of use are outside our control. (Oct 2005)

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Recommendations for use

For air drying finishes, a mixture of Cobalt and Zirconium driers to give 0.05% Cobalt and 0.15% Zirconium expressed as metal on solid alkyd is recommended. To enhance the drying, 0.2% of calcium calculated on resin solid can be added. Unlike the conventional thixotropic alkyds the rheology of the system is unaffected by the polarity of the calcium drier used.

Method of using Polygel

To obtain maximum structure, pigments/extenders should be carried out in main resin (ie. Polykyd LA401) in order to achieve the required fineness. Then, Polygel GA801 should be added to stabilize the pigment dispersion under strong shearing conditions. This is best achieved by maintaining the pigment and resin mix at the highest viscosity yet maintaining mobility. The objective is to incorporate the Polygel GA801 in the shortest possible time and at minimum shear rate. If the viscosity of the mixture is too low, excessive shear rates are required to obtain an homogenous mixture. This will result in diminished gel strength and excessive aeration in paint.

As soon as the polygel GA801 has been completely incorporated, the speed of stirring should be decreased to minimum and remainder of the formulation should be added. The polar solvent will be added at the final thinning stage.

For producing the wood filler, please refer to guide formulation and their method of process.

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