



# Polygel GA 813 X60

## Type

Thixotropic modified alkyd resin

## Supply form

60% solid in xylene

## Suggested applications and properties

Polygel GA813 is suitable for anti-settling for primer, pigmented and matt finishes in wood coating application.

It also use to formulate texture coating.

GA813 also suitable for formulating the wiping filler.

The resin thixotropy will not effected by temperature or any polar substances.

## Typical Characteristics

Oil type

Solvent

Non-volatile content

Viscosity at 25°C

Maximum acid value , mgKOH/g

Maximum Gardner colour

Specific gravity at 25°C

## GA813 X60

Special fatty acid

Xylene

60±2%

thixotropic soft gel

25

10

1.01

## Compatibility

Polygel GA813 is compatible with most medium and short oil alkyd. It is also compatible with cellulose varnishes, drying oils and polymerized (stand) oils of low and medium viscosity.

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. (Jan 2009)

## Polymeric Technology Sdn Bhd

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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 in order to achieve the required fineness. Then, Polygel GA813 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 GA813 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 GA813 has been completely incorporated, the speed of stirring should be decreased to minimum and remainder of the formulation should be added. If the formulation require polar solvent, then it should 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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