



**BENTEC ORGANOCLOYS PVT. LTD.**

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## **PRODUCT GUIDE**

### **BENTEC PC-1**

#### **Paint And Coatings Application**

##### **General Properties**

Appearance	:	Off White Powder
Volatiles ( Moisture)	:	2 to 4 %
Particle Size	:	95% minimum through 350 B.S.S. mesh
Ultimately Dispersed	:	Less than 1 micron, largest dimension
Bulk Density	:	About 35 lbs/cubic ft.
Packing	:	25 Kgs HDPE bags with liner

##### **Advantages and Usage**

Bentec PC-1 provides thixotropy and pigment suspension in organic systems which contains aliphatic solvents and aliphatic/aromatic solvent mixes. PC-1 is a self dispersing organophilic clay. PC-1 finds use in oil based paints and varnishes, epoxy systems, alkyd enamels and primers.

PC-1 is an easily dispersible self activating additive. PC-1 may be added to the pigment grind or to the finished product for viscosity improvement. PC-1 may not require a polar activator in most applications.

If an improvement in viscosity or sag resistance is required beyond the performance of PC-1, we suggest adding no more than either 10% (based on clay weight) propylene carbonate or 20-30% Methanol or Acetone. Larger amount will have a negative effect on performance. Combining water with either of the alcohols will give an even better performance.

BENTEC PC-1 is designed to provide suitable rheology in finished systems. It may not always gel in individual solvents. Activators, if necessary, should be added after introduction of the resin.

**To the best of our knowledge and belief, the above information is accurate. Because the conditions of handling and of use are beyond our control, we cannot guarantee results, and assume no liability for damages incurred in using our product. The above is not to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.**

P.T.O.

METHOD OF PREPARATION OF GEL USING BENTEC ORGANOCCLAYS

Solvent (Mineral Turpentine)	-	87 Parts
slowly add at low speed		
BENTEC PC-1	-	10 Parts
Mix at high speed for 15 Min. Add		
Polar Activator (Methanol 95% + 5% Water)	-	3 Parts

Mix at high speed for 5 Min.  
Store the Gel in air tight container overnight.

OR

Solvent (Mineral Turpentine)	-	85 Parts
slowly add at low speed		
BENTEC PC-1	-	10 Parts
Mix at high speed for 15 Min. Add		
Polar Activator (Acetone)	-	5 Parts

Mix at high speed for 5 Min.  
Store the Gel in air tight container overnight