



**长兴广达新型材料有限公司**  
**Changxing Guangda New Materials CO.,LTD**

## GDGEL-281 RHEOLOGICAL ADDITIVE

**Description** GDGEL-281 is an organo clay (modified bentonite), designed especially for use in solvent based system. It can be used widely in solvents from low polarity to medium-high polarity.

<b>Properties</b>	Composition	Organic derivative of a montmorillonite clay
	Appearance	Fine powder, light yellow
	Moisture content (105°C, 2hr)	≤3.5%
	Loss on ignition (1000°C)	28%-30%
	Bulk density	0.35-0.48g/cm <sup>3</sup>
	Fineness (<74 μ m. %)	≥95%

**Advantages**

- High gelling efficiency
- Light color gel
- Produce reproducible thixotropic consistency over a wide temperature range
- Imparts particle suspension, pre tting of pigment and fillers.
- Exerts strong film reinforcing action in organic binder systems.

**Application**

- Marine paint, Industrial paint, heavy-duty, anticorrosion paint such as bituminous coatings, polyester paints, Alkyd paints.
- Sealant                      ● Inks                      ● Grease                      ● Unsaturated polyester putty

**Using** GDGEL-281 disperses under high shear and requires a polar activator for best efficiency. Heat is not required to obtain good dispersion. Addition levels are typically in 0.2%~2.0%. Polar activator (95% Ethanol or 95% Methanol) is needed. Normally addition level of polar activator is recommended to be 40%~50% of GDGEL-281 in weight. If in xylene system, addition level of polar activator is about 30%-40% of GDGEL-281 in weight.

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Pre-gel is made as below procedure.

1. Charge solvent to mill
2. Slowly add GDGEL-281(6-10% by weight of total pregel) to mill under agitation.
3. Mix at high speed for 5 minutes.
4. Add polar activator.
5. Mix at high speed for 5 minutes.

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**Package  
&Storage**

Kraft paper bag with PE liner or multi-wall paper sacks or customized. 25kg/bag or 50LB/bag or customized. GDGEL-281 has a shelf life of 24 months, and should be stored in ventilated cool and dry place.

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**Notice**

The information on use is based on data which are believed reliable, but any recommendation or suggestion made is without guarantee or warranty, since the conditions of use are outside our control. All products are sold on the conditions that purchasers shall make their own tests to determine the suitability of such products for their purpose and that all risks are assumed by user. We disclaim any responsibility for damages resulting from careless or improper handling or use. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

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