



长兴广达新型材料有限公司

Changxing Guangda New Materials CO.,LTD

GDGEL W

Product introduction:

GDGEL-W series is a special organic modified clay . It can be dispersed both in aqueous system and solvent system. Especially, It has excellent behavior in water-borne system. It can replace cellulose such as HEC and HPMC in water-borne coatings, construction mortar,ceramics.

Typical properties:

- *Excellent water retention (Superior water retention to HEC and HPMC).
- *Wide viscosity range (Cover all viscosity range of cellulose).
- *Fine temperature tolerance. It can disperse in cold water or in hot water.
- *High adhesion and strengthening, it can be used as adhesive agent in printing and dyeing in textile industry.
- *High thixotropy
- *GDGEL W has good coordination with cellulose, it can be used together with HEC or HPMC. Normally, the ratio of GDGEL W and cellulose is 80%:20%.

Specification:

Item	Index	Type	Concentration (%)	Viscosity(mPa.s25℃), RV7-60r/min
Appearance	White powder	GDGELW3	2%	5500~9000
Particle size, 200mesh	≥95%	GDGELW4		10000~18000
Moisture content	≤12%	GDGELW5		20000~28000
Bulk density,kg/m ³	430	GDGELW6		30000~38000
		GDGELW7		40000~50000
PH(solution)	8.0~10.0	GDGELW8		55000~65000

Note: Viscosity testing condition: water solution at 25℃,tested by Brookfield DV-II VISCOMETER, Rotor Rotate speed RV7

Application:

1. Cement-based mortar

- ◆ GDGEL W has good thickening performance in mortar and can improve mortar's rheology. With GDGEL W, mortar is more slippy and easier for workers to coat on wall. It can Prolong construction time of mortar, and create higher working efficiency. It is helpful for mortar to form high intension during solidification.

2. Putty

- ◆ GDGELhas good water-retention performance in putty, and it can prevent putty to be dewatering and crack, and prolong construction time. GDGEL W has anti-skinning performance and is helpful

for putty to have high intension during solidification.

3. Thermal insulation mortar (mainly for Bonding mortar and overlay mortar)
 - ◆ With its high water-retention thixotropy and adhesion, GDGEL W can prolong construction time of mortar and create higher working efficiency. It gives fine surface and slippery feeling of the mortar and improve surface quality by its shrinkability and anticracking. It is helpful for mortar to form high intension during solidification. and improve bond strength.
4. Interface treatment binder
 - ◆ GDGEL W is good thickening agent for interface treatment binder. It can increase tensile strength and anti-shear strength, and make the binder to have better adhesion and binding strength.
5. Ceramic tile
 - ◆ GDGEL W can be used in ceramic tile as water retention agent, adhesive. With its perfect water retention and adhesion, ceramic tile can be strength enough to avoid crack and easier to be constructed.
6. Emulsion coatings and other water-borne paint.
 - ◆ With its high thickening and thixotropy, it can be used to replace HEC in Emulsion coatings and other water-borne paint as rheological additive, film-forming agent, adhesive, emulsifier and stabilizer. It also can be used together with HEC in a proper ratio.
7. Printing and dyeing in textile.
 - ◆ Used as adhesive

Package and Storage:

- ◆ Package: Craft paper bag with PE liner. The weight of each package is 20kg or 25kg.
- ◆ Store condition: Keep it in Dry and sealed. places at the TEMP. of 0°C-30°C.
- ◆ Validity: 12 months from the date of manufacturing.

Add : Wushangang Town, Changxing County ,Huzhou City, Zhejiang, China

Website : www.gdgel.com

E-mail: gdgel@gdgel.com

TEL : 86-572-6513637

FAX: 86-572-6513637

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