



Zhejiang Fenghong New Material Co., Ltd.

Tel +86-571-63806068/63711876

Fax +86-571-63751569/63806098

Tangpu Developing Zone, Anji County,
Zhejiang Province, China. P.C. 313300

bentonite@zjfenghong.com

www.zjfenghong.com

HFGEL 120-0

Rheology Modifier for Low to Intermediate Polarity Systems

GENERAL INFORMATION

HFGEL 120-0 is an organophilic clay designed for use primarily in systems containing aliphatic to aromatic solvents such as xylene, toluene, mineral spirits, and naphtha.

ADVANTAGES

- Increases viscosity and imparts thixotropic properties
- Provides sag resistance properties
- Prevents hard settling during storage
- Improves flow and leveling

PHYSICAL PROPERTIES

Composition	Amine-treated bentonite
Color/Form	Light cream, finely divided powder
Density	1.7 g/cm ³
Moisture	3.5% Max
Fineness	98% Min thru 200 mesh

RECOMMENDED USE

- Oil-based paints and stains
- Anti-corrosive paints
- Bituminous coatings
- Traffic paints
- Adhesives
- Caulks and sealants
- Primers, undercoats
- Printing inks
- Greases

INCORPORATION

HFGEL 120-0 requires high shear dispersion in the solvent or resin/solvent blend as well as a chemical activator. It is added with agitation to the solvent or resin/solvent and dispersed under shear for 10 minutes. A polar activator is then added and mixed an additional 10 minutes to ensure complete activation. Cowles-type dissolvers, sand, ball or three roll mills are all suitable.



Zhejiang Fenghong New Material Co., Ltd.

Tel +86-571-63806068/63711876

Fax +86-571-63751569/63806098

Tangpu Developing Zone, Anji County,
Zhejiang Province, China. P.C. 313300

bentonite@zjfenghong.com

www.zjfenghong.com

CHEMICAL ACTIVATOR

Methanol/H ₂ O & Ethanol/H ₂ O (95/5)	30-50% based on dry weight of HFGEL 120-0
Propylene Carbonate or PC/H ₂ O (95/5)	25-35% based on dry weight of HFGEL 120-0
Acetone/H ₂ O	50-60% based on dry weight of HFGEL 120-0

RECOMMENDED LEVELS

HFGEL 120-0 use level depends on the system but is typically 0.2% - 1.0% (dry) by weight of the system, depending upon the degree of thickening or other properties desired.

Laboratory testing is recommended to determine optimal level.

HEALTH AND SAFETY DATA

Before handling this material, read the corresponding Safety Data Sheet (SDS) for safety, health and environmental data.

SHELF LIFE

HFGEL 120-0 has a shelf life of at least two years from date of manufacture. Store in a cool dry place.

CERTIFICATIONS

ISO 9001 Quality System, ISO 14001 Environmental Management System, ISO 18001 Safety System



OFFICIAL PARTNER OF FENG HONG - USA & Canada

25000 Country Club Blvd. Ste. 444 | North Olmsted, OH 44070 | Tel 800-635-4822 | Fax 440-686-2180 | info@palmerholland.com | www.palmerholland.com

The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchases will be subject to a separate agreement which will not incorporate this document.