



Zhejiang Fenghong New Material Co., Ltd.

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HFGEL 120-B

Rheology Modifier for Solvent Systems of Low to High Polarity

GENERAL INFORMATION

HFGEL 120-B is an organophilic clay designed for use primarily in aliphatic and aromatic hydrocarbon systems such as mineral spirits, naphtha, xylene and toluene. It is also suitable for some higher polarity solvent systems. HFGEL 120-B can be incorporated at any point in the manufacturing process using common processing equipment.

ADVANTAGES

- No need for chemical activator to reach optimal efficiency in most systems
- Exerts strong film reinforcement properties in organic binder systems
- Ease of incorporation - can be added as a powder at the pigment grind phase or post added

PHYSICAL PROPERTIES

Composition	Amine-treated bentonite clay
Color/Form	Light white powder
Density	1.7 g/cm ³
Moisture	3.5% max
Fineness, 200 mesh	98% min

RECOMMENDED USE

- Marine paints
- Anti-corrosive coatings
- Industrial paints
- Automotive primers
- Adhesives & sealants

INCORPORATION

HFGEL 120-B does not require heat or a chemical activator in medium to high polarity systems to reach the proper activation. HFGEL 120-B should be dispersed in resin/solvent for at least 30 minutes followed by wetting agents and pigments. For some low polarity systems, use of a chemical activator is required. It is recommended to determine the optimum level by experiment as defect or excess of activator yields weaker viscosity development.



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CHEMICAL ACTIVATOR

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

RECOMMENDED LEVELS

HFGEL 120-B is typically used at levels of 0.5% - 1.5% 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-B 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



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