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# ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.

# www.zjfenghong.com

# HFGEL-120-D17

**Rheology Modifier** 



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# GENERAL INFORMATION

HFGEL-120-D17 is a kind of modified organoclay, which has the characteristics of high purity, light gel color and good heat stability.

It is a good rheology modifier for paints and inks in low, medium and high polarity solvent systems such as aliphatic hydrocarbons, esters and ketones.

It is self-activated in medium to high polarity solvent systems such as xylene - esters (such as butyl acetate) and xylene - ketones (such as cyclohexanone), and sometimes an appropriate amount of polar activator is helpful for dispersing.

It requires to add polar activators to help disperse in the aromatic hydrocarbons such as toluene, xylene, aliphatic hydrocarbons such as 200 # solvent oil, white oil (mineral spirit) and other low polarity solvent systems. (polar activators: 1.95% ethanol, adding amount is 30-50% by weight of HFGEL-120-D17;2.propylene carbonate, adding amount is 20-30% by weight of HFGEL-120-D17).

PHYSICAL PROPERTES	RECOMMENDED USE
Appearance: Free flowing powder	Anti-corrosion paint
Color/Form : Off white	Marine paint
Density : 1.7g/cm <sup>3</sup>	Decorative paint
Moisture ∶≤3.5%	Automotive primer
Fineness :98% Min thru 200 mesh	Sealant
Loss on Ignition:≤40%	Lubricating grease
Bulk density (kg/m3):400	



## INCORPORATION

HFGEL-120-D17 rheology modifier has good wetting and dispersing properties. It can be directly added into the system to grind (stir) and disperse with pigments and filler together, normally no need to make pre-gel.

High speed stirring or polar activators addition is beneficial for fully dispersion

Polar Activator: Methanol/H<sub>2</sub>O(95/5), Ethanol/H<sub>2</sub>O (95/5), propylene carbonate

The adding amount of polar activator: It is always recommended to determine the proper level of addition by experiment. Either defect or excess of chemical activator would result in poorer viscosity development.

## **RECOMMENDED LEVELS**

The amount of HFGEL-120-D17 rheology modifier required depends upon the type of organic system and the degree of thickening or other properties desired. Addition levels are typically between 0.2%-1% based on the total formulation weight(powder direct addition usage)

## 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-D17 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

### MANUFACTURER: ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.

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