



## **TECHNICAL DATA SHEET**

### **1. Product Name**

Product Name: Copolymer of vinyl chloride and vinyl isobutyl ether

Product Code: MP45

Form: Powder

Color: White

Odor: Slight

### **Composition**

Copolymer of vinyl chloride and vinyl isobutyl ether: 100%

### **2. Product Introduction and Usage**

Copolymer of vinyl chloride and vinyl isobutyl ether coatings has all the properties of modern corrosion resistance, like as water resistance, hydrolysis resistance, weather resistance and chemical resistance. It is widely used in chemical industry, metallurgy industry mining industry, water supply system and shipbuilding industry, as following

1. Heavy anticorrosive coating resistant to industrial atmosphere: such as factory buildings equipment, pipelines, storage tanks, municipal engineering, harbor and wharf, etc: Due to its excellent resistance to saponification, water and chemicals, and excellent adhesion copolymer of vinyl chloride resin is very suitable for anticorrosive undercoat and topcoat in industrial:
2. Heavy anticorrosive paint for ships: For example, the various parts of the hull are particularly suitable for the corrosion resistance to sea water, because the copolymer of vinyl chloride resin has excellent waterproof, saltwater resistance, outdoor weather resistance, oxidation resistance and long-term high-efficiency corrosion resistance, and the preparation of coating drying quickly, easy to use, in the field of shipbuilding industry corrosion prevention has important significance:
3. Container paint and transportation machinery paint: Such as railway, sea, land and other containers, transport machinery, dangerous goods tanker, etc, due to the excellent adhesion, water resistance stability of copolymer of vinyl chloride resin, it can ensure keep stability in a wide range of temperature changes



4. Base coating and surface coating of light metal: Due to aluminum, zinc, galvanized steel and other non-ferrous metals are difficult to be coated with paint, the general synthetic resin coating is not readily bonding with them, the coating will be removed easily from the substrate, but copolymer of vinyl chloride resin painting has a good adhesion to them;

5. Special paint for bridge, ocean engineering and energy engineering

6. Inorganic substrate paint, road marking paint, plastic paint, fireproof paint, etc

### **3.Product Features:**

Corrosion resistance: excellent anti-saponification, stable combination of chlorine atoms in the molecular chain, so that the products have water resistance, acid resistance, alkali resistance. salt resistance;

Compatibility and miscibility: excellent solubility in the solvent of ester hydrocarbon and aromatic hydrocarbon: As a good binder, to improve the ink dispersion, transfer, color wettability and other aspects of an irreplaceable roles;

Good stability: aging resistance, yellowing resistance, powdered resistance, hydrolysis resistance, light resistance, weather resistance, corrosion resistance and other excellent performance, good thermal stability, suitable for high temperature disinfection;

Good adhesion: good adhesion to various substrates;

Environments friendly: Free heavy metals, free brominated flame retardants and free phthalates;

### **4.Physical parameter analysis results:**

Parameters	Results
Softening temperature	52℃
Bulk density	About 370kg/m <sup>3</sup>
Solubility in water	Not soluble

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Viscosity,(23.2 °C /20% toluene solution)/ (mpa.s)	44
Apparent density,g/ml	0.38
Chlorinity,%	44.4

**5.Chemical parameter analysis results:**

Test items	Test results	Test methods
Lead	< 2 mg/kg	IEC 62321-4:2013 +AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015 and IEC 62321-8:2017
Cadmium	< 2 mg/kg	
Mercury	< 2 mg/kg	
Hexavalent chromium(Cr VI)	< 8 mg/kg	
Sum of PBBs		
Monobromobiphenyl	<5mg/kg	
Dibromobiphenyl	<5mg/kg	
Tetrabromobiphenyl	<5mg/kg	
Tetrabromobiphenyl	<5mg/kg	
Pentabromobiphenyl	<5mg/kg	
Hexabromobiphenyl	<5mg/kg	
Heptabromobiphenyl	<5mg/kg	
Octabromobiphenyl	<5mg/kg	
Nonabromobiphenyl	<5mg/kg	
Decabromobiphenyl	<5mg/kg	
Sum of PBDEs		
Dibromodiphenyl ether	<5mg/kg	
Dibromodiphenyl ether	<5mg/kg	
Tribromodiphenyl ether	<5mg/kg	
Tetrabromodiphenyl ether	<5mg/kg	
Pentabromodiphenyl ether	<5mg/kg	
Hexabromodiphenyl ether	<5mg/kg	
Heptabromodiphenyl ether	<5mg/kg	
Octabromodiphenyl ether	<5mg/kg	
Nonabromodiphenyl ether	<5mg/kg	
Decabromodiphenyl ether	<5mg/kg	
Dibutyl phthalate (DBP)	<50mg/kg	
Benzylbutyl phthalate (BBP)	< 50 mg/kg	



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Bis-(2-ethylhexyl) phthalate(DEHP)	< 50 mg/kg	
Diisobutyl phthalate (DIBP)	< 50 mg/kg	

### 6.Handle precaution:

Ensure adequate ventilation in the workplace

Wear dust mask

Wash hands and face at the end of work

Keep away from ignition source and heat source

### 7.Storage condition

It is packed in kraft paper bags, 20 kg per pack

Store in a cool, dry and well-ventilation place, preventing storage temperature of the products from over 40°C

Storage and transportation should avoid extruding, avoid heat and humid environment;

### 8.Disposal consideration:

Recycle it best; if not, centralize incineration

### 9.Transport information

This product is not dangerous goods, not regulated by ADR, RID, ADN, IMDG, IATA