

# COSMONATE JG-50K

## -Technical Data Sheet-

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### 1. characteristics of product

Cosmonate JG-50K is low adhesion degree Special Polymeric MDI which is used in manufacturing of electrolysis paint hardener.

Cosmonate JG-50K is liquefied product in high temperature, so easy to treat for storage up to 10, as a Solvent Free type, mixed with one volume MDI of 4,4-Diphenyl-methane dilsocyanate, of which more than two volume, three volume, four volume's oligomer, has maximum 20cps(25 ) of adhesion degree and average 2.3~2.4 of sensory gear

### 2. product application



**Coatings for buildings**



**Spray for thermal insulation**



**Adhesives**



**Waterproof floorings**

Cosmonate JG-50K is a special product developed for manufacturing electrolysis paint hardener, it can be applied in CASE field such as adhesives specialized by low adhesion degree and waterproof ground material. Remarks What is electrolysis coating? It is a paint film formation on the ground surface by electric power, as dividing negative pole and positive pole in paint and ground needed painting, providing direct current power source in water-soluble paint. The merit of electrolysis coating is like the following. Coating can be equally on complex structure and even on invisible part. Thanks to automation of coating, it can save energy, thickness of painting film can be controlled by 10~30, levelness and broadness of painting film are equal compared with powder puff paint, so external appearance is fine. Also there's no running, no getting blocked, no pinhole, less loss of paint (reuse), coated on welding part, inside pipe, excellent durability, less pollution thanks to water-soluble.

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## 3. Product standards & general properties

Item	Evaluation	Unit	result
<b>Product standards</b>			
NCO content	ASTM D 1638	wt%	31.3 ~ 32.3
Viscosity(25°C)	ASTM D 1638	cps	40 ~ 60
H.C content	ASTM D 1638	wt%	0.09 ~ 0.12
Acid content	ASTM D 1638	wt %	0.009 ~ 0.012
specific gravity(25°C)	ASTM D 1638	-	1.21 ~ 1.23
<b>General physical properties</b>			
product exterior			brown liquid
Boiling point		°C	200 ~ 208
freezing point		°C	below 10
pressure (25°C)		mmHg	ignorable level
ignition point		°C	177 ~ 218
Molecular Weight		g/mol	300 ~ 350
<b>Chemical structure</b>			
<p>Over n=0,1,2,3,4</p>			

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## 4. product packaging

Cosmonate JG-50K is packed by 230kg Drum

## 5. Safety and Health

In case of skin contact, inflammation such as an eruption can break out. In case of getting in the eye, severe painful, when exposed excessively, eyesight trouble can happen. Also in case of inhaling steam of MDI, bronchial asthma, headache, dyspnea can break out, in case of eating it, it can cause a trouble in digestive organ and inflammation. In case of skin contact, you shall wash out with great quantities of water or soapy water.

And in case of contact to the eye, you shall wash out with great quantities of water or soapy water for 15minutes before go to see a doctor. Also in case of inhaling steam of MDI, you shall be moved to the fresh place, be kept safe and warm, be tried artificial respiration in need. In case of eating it, you shall eat a large quantity of water or milk, raw egg and vomit before go to see a doctor. It's not much inflammable but should be careful with fire. In case of fire extinguishing, carbonic acid gas type is appropriate. In case of big fire you shall put out a fire with water.

## 6. Storage and Handling

Appropriate storage temperature for JG-50K is 25~35°C. Be careful especially not to mix water with the storage tool, you shall make airtight with nitrogen gas if possible. When you work with MDI you shall wear an appropriate safety equipment, in need shall set ventilator or wear a gas mask. After work, you have to wash out with soapy water, polluted working uniform should be washed out before wearing.