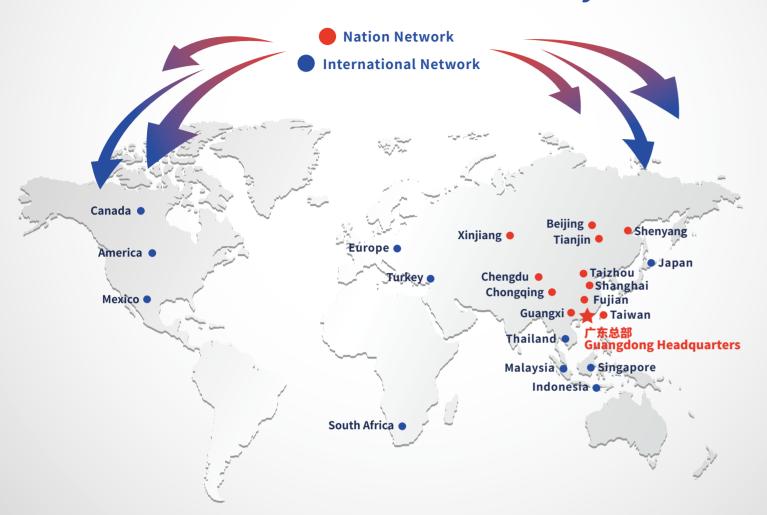
### **Easource Distribution Network System**



### **GUANGDONG EASOURCE NEW MATERIAL CO.,LTD.**

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核心价值观 Core Values

诚信 Integrity 务实 Pragmatism 团结 Solidarity

奉献 Dedication

# 材料解决方案专家 MATERIAL SOLUTION EXPERT

广东依斯特新材料有限公司

GUANGDONG EASOURCE NEW MATERIAL CO.,LTD.





### **Corporate Vision**

Committed to providing sustainable and environmentally friendly raw materials for all mankind

### **Strategic Brand Positioning**

To become a global leader in coating raw material solutions

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# **Business** philosophy

Promote industry through technology

Quality-based

Keep promises

Pioneering and enterprising







Intelligent automated production with central control throughout the production process

### North&South Correspondence Dual Raw Material Production Base





**GUANGDONG EASOURCE NEW MATERIAL CO.,LTD.** 

SHANDONG KGE NEW MATERIAL CO.,LTD.

Guangdong Easource New Material Co., Ltd. is a professional high-tech enterprise which integrating the production, R&D, and sales of saturated polyester resins for powder coatings, liquid acrylic resins, inorganic composite pigments, fine solvents, and insulation pouring glue.

Easource was founded in 2012, located in Qingyuan Yinghong Industrial Park. We have premium manufactory equipment from foreign countries and over 100000 square meters workshop coverage, total investment is 400 million RMB. The annual production of various kinds of resin reached 100000 tons, 6000 tons of polyurethane insulation pouring glue, 8000 tons of inorganic composite pigment and 5000 tons chemical solvents.

Easource attracted a large number of outstanding technical talents with a strong professional technical R&D team and efficient management team, providing stable quality products and most satisfactory services for customers.

Our ultimate goal is to promote the continuous improvement of the social environment by producing, developing and selling new high-performance materials.



Professional control of product quality





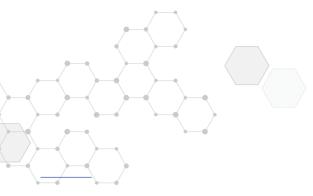








raw materials



**Service First Customer First** 

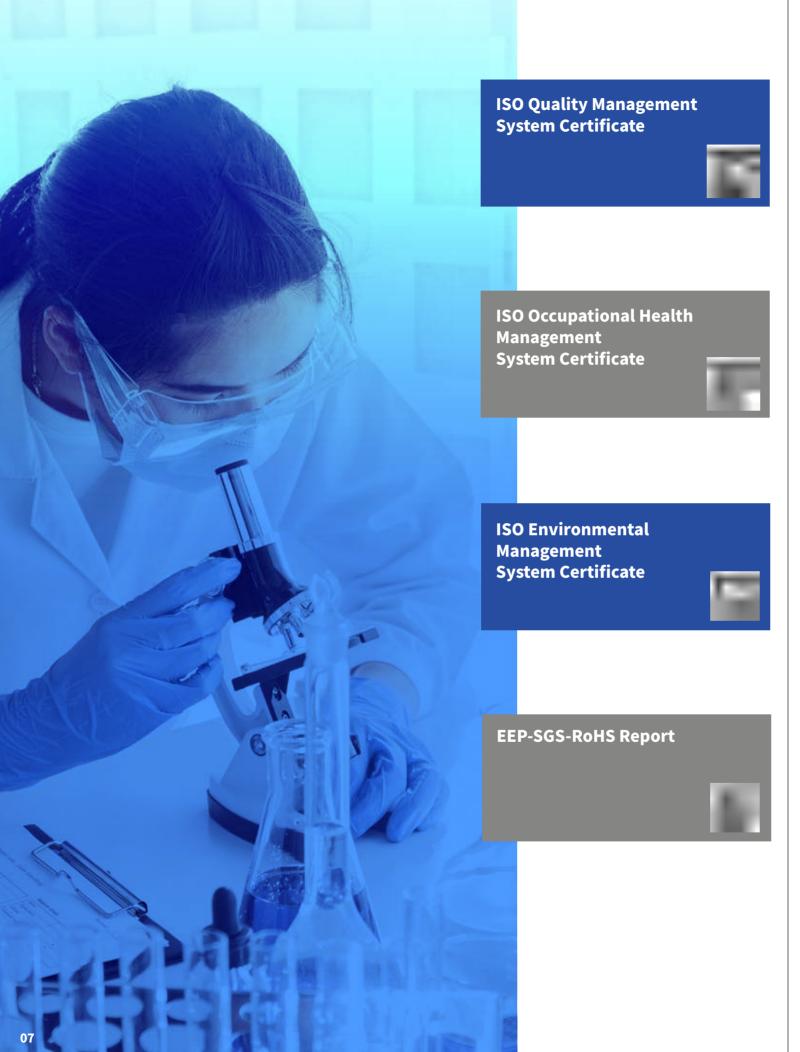






Polyester Resin annual production capacity of 80000 tons, ranking among the top five in the Chinese industry

TGIC curing agent annual production capacity of 10,000 tons jumped to China's top five industry





























### Polyester Resin(TGIC, Hybrid, HAA) For Powder Coating

## Polyester Resin With TGIC Curing (Outdoor Use)

Hose Model	Rate	Acid Value	Viscosity (200°C)	Тд	Curing Temp (12mins)	Softening point	Character
T9088A	93/7	30-35	3000-4500	≥60	200°C	120±5	High-weatherablity,Excellent flow&flexibility Resistance to deflection
T9188A	93/7	29-35	3500-5500	≥62	200°C	120±5	Common type,Excellent flow
T9088W	93/7	30-35	4000-5000	≥62	200°C	120±5	High-weatherablity;Excellent flow&flexibility Good comprehensive performance
T9088X	93/7	30-35	5500-7000	≥65	200°C	120±5	High weather resistance, metal powder, matting
T9989	93/7	30-35	5000-7000	≥60	200°C	120±5	High weather resistance, art type boiling water resistance
T9188S	94/6	29-35	3500-5500	≥60	200°C	120±5	High weather resistance without organotin
T9088C	93/7	30-35	4000-6000	≥60	200°C	120±5	High-weatherablity without organotin
T9088B	93/7	30-35	5000-7000	≥63	200°C	120±5	High-weatherablity and for textured powder coating
T9088BR	93/7	30-35	5000-7000	≥63	200°C	120±5	High weather resistance, art type, gas pollution resistance
T9309	92/8	40-45	3000-4000	≥63	200°C	120±5	Heat transfer printing
T9011	90/10	48-55	2500-5000	≥63	200°C	120±5	High acid value,dry blend to matting with low AV
T9220	95/5	15-25	3500-6500	≥60	200°C	120±5	Low acid value;dry blend to matting with high AV
T9220D	95/5	5-10	3500-6500	≥60	200°C	120±5	Low acid value, low gloss extinction with high AV dry mix
T9011N	90/10	48-55	2500-5000	≥63	200°C	120±5	Super weather resistance, high acid value, and low AV dry mix extinction

Polyester Resin annual production capacity of 80,000 tons, ranking among the TOP FIVE in the Chinese industry.

TGIC curing agent annual production capacity of 10,000 tons jumped to China's TOP FIVE industry.

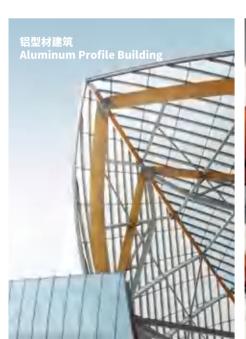
Hose	Dota	Acid	Viscosity	To	Curing Temp	Softening	Character.
Model	Rate	Value	(200°C)	Tg	(12mins)	point	Character
T9220N	95/5	15-20	3500-6500	≥60	200°C	120±5	Super weather resistance, low acid value, and high AV dry mix extinction
T8160	93/7	30-35	4000-6000	≥63	160°C-170°C	120±5	low-temperature setting
T8288	94/6	25-30	3500-4800	≥60	200°C	120±5	Common type,Excellent flow
T8288B	94/6	25-30	3000-4500	≥60	200°C	115±5	Common type,Excellent flow,high cost performance
T8288R	94/6	25-30	3500-5000	≥60	200°C	115±5	Common type,Excellent flow,gas pollution resistance
T8288F	94/6	29-35	3500-5000	≥58	200°C	115±5	Low weather resistance, art type, high cost performance
T9087	92/8	30-35	4500-6500	≥63	240°C-250°C	120±5	Fast curing for coil plate

All outdoor resin models with an "R" at the end are (or are represented as) anti gas pollution resins.



# Hybrid Polyester Resin (Indoor Use)

Hose Model	Rate Acid Value	Viscosity (200°ℂ)	Tg	Curing Temp (15mins)	Softening point	Character
T5088	50/50 65-75	1800-2800	≥53	180°C	105±5	Indoor use 50:50,good comprehensive performance
T5088B	50/50 65-75	2500-3500	≥53	180°C	105±5	Indoor use 50:50 for textured powder coating
T5088C	50/50 65-75	1800-3000	≥53	180°C	105±5	Indoor use 50:50 without organotin
T6088	60/40 45-55	2000-3500	≥52	180°C	105±5	Indoor use 60:40,good comprehensive performance
T6088B	60/40 45-55	2500-4000	≥52	180°C	105±5	Indoor use 60:40 for textured powder coating
T6088C	60/40 45-55	2000-3500	≥52	180°C	105±5	Indoor use 60:40 without organotin
T7088	70/30 35-45	2000-3500	≥52	180°C	105±5	Indoor use 70:30, good comprehensive performance







# Polyester Resin With HAA Curing-Environment Friendly (Outdoor Use)

Hose Model	Rate	Acid Value	Viscosity (200°C)	Тд	Curing Temp (10mins)	Softening point	Character
T9500	93/7 95/5	28-35	4000-6000	>60	200°C	120±5	Cured by both TGIC and HAA
T8288H	95/5	25-30	3500-5000	≥60	200°C	115±5	Common type,Excellent flow and HAA

Packing:

Packing specifications: 25kg/PE Bag

### Storage:

product should be kept in dry and cool place, Keep away from heat and direct sunlight. Storage period:12 months.









# **Coating Additives For Powder Coating**

### **TGIC curing agent**

Scientific name of cyanuric acid triglycidyl ester(1H,3H,5H) -tri (2, 3-epoxypropyl)-s-triazine-2,4,6-triketone(TGIC,also known as talypik) is a heterocyclic polycyclic compound. The appearance of TGIC is white crystalline powder, the melt is colorless and transparent, the melt density is 1.33g/cm3 at 120°C, the viscosity is 100mPa·S at 120°C, and the theoretical epoxy value of 100g is 1.01g/mol. TGIC is easily soluble in acetonitrile, dioxane, dichloroethane, chloroform, DMF, dimethyl sulfoxide, slightly soluble in methanol, ethanol and water, but insoluble in ether, hexane and carbon tetrachloride. No hygroscopicity;It can crosslink with curing agents such as anhydride, amine and phenolic resin.

Because of the triazine ring structure, TGIC has good heat resistance, weather resistance and adhesion Excellent high temperature electrical properties; The relative molecular weight is small, so the epoxy equivalent is also small, It can be used as an epoxy resin modifier. Most of the products are used as curing modifiers for polyester powder coatings, and can also be used as curing modifiers for polyacrylates containing carboxyl groups. Cross-linked with acid anhydride and amine solidifying agent to form a compact structure of insoluble and insoluble material, which is made of high-performance insulating material electrical material; For self-extinguishing polymers, modification of epoxy resins, preparation of highly efficient adhesives and PVC (polyethylene)Stabilizers, etc.

### **TGIC finished product comprehensive index**

Item	Index	Remark
Melting range (°C)	95-115	
Epoxide equivalent (g/mol)	≤106.5	Adjust the corresponding indicators according to the customer demand
Total chlorine (%)	≤0.4	Adjust the corresponding indicators according to the customer demand
Dust content (%)	≤0.02	Regular product≤0.7
Volatility (%)	≤0.5	Regular product≤0.7
Eichlorohydrin residue (ppm)	≤200	
Appearance	White smooth dense particle	esThe conventional product is white rough crisp granules

### **Allergy buster-TGIC shape**



polyethylene plastic packing:net weight 25kg.



#### Precautions:

Store in a cool and dry place, avoid direct heat, and pay attention to moisture. Employees should wear anti-penetration gloves, protective glasses and special dust masks to avoid inhaling dust Contact eyes, skin, etc. In case of contact with eyes, please wash with plenty of water and seek medical attention.

#### Warranty period

valid for half a year at room temperature, products beyond the shelf life need to pass the re-test Normal operation. It is recommended to avoid storing it for a long time.

### Other additives

Product Name	Model	Dosage	Net Weigh	Product Description
Powder Flow Additives	YZA052	0.1-0.3%	4KG	Powder special loose agent, can prevent powder accumulation, increase Add powder fluidity to improve the electricity of powder particles The powder rate, effectively reduce the electrostatic shielding effect.valid Solve the problem of spraying group, dead corner powder and so on. Can increase the powder surface flatness. Can be improved or improved Vitrification temperature of the powder coatings to achieve a better storage stability.
Sensitizer	YZA701	0.8-1.5%	25KG	Powder special brightening agent, wets the substrate, eliminates shrinkage holes, eliminates surface pinholes, makes the film full, delicate, smooth and has good transparency and surface clarity, reduces fog shadow.
Dispersing Aid	YZCA408	0.1-0.3%	15KG	Powder dispersant can improve the dispersion, arrangement and lubrication of silver powder in powder, highlight film thickness, improve leveling and enhance mirror effect. It has good effect in Bonding powder, and can greatly improve the salt spray resistance and oxidation resistance of silver powder.
Raising Agent	YZCA204	0.5-1.5%	4KG	Powder special loose agent, can prevent powder accumulation, increase Add the powder fluidity.
Fog Shadow Eliminator	YZCA801	0.5-1.5%	25KG	Powder special fog film elimination agent, improve the paint surface Degree, eliminate the white fog caused by diffuse reflection feel.
Flexibilizer	YZA815	0.5-1.5%	10KG	Powder special toughening agent, adding the coating with the treated base The adhesion of the material improves the strength, toughness of the coating Impact resistance and shear resistance; coating surface Close, smooth and full, fresh and bright, coating hardness High, scratch resistance and friction resistance is greatly enhanced; visual The saturation and elasticity effects are very significant. Especially the work The coating shall not crack or peel after coating Cold resistance and thermal fatigue performance are greatly improved.
Defoaming Agents	YZA888	0.5-1.5%	10KG	Powder special defoaming agent, reduce the shrinkage of the paint film surface Surface defects such as holes and white spots, improve the degassing rate, Improve the bright appearance of the paint film.
Flatting Agent	YZA988	0.5-1.0%	25KG	Powder leveling agent, adjust the surface tension of paint film, Eliminate the surface pinhole to make the coating plump, delicate and flat Slide, homogenize the coating, reduce orange peel and eliminate shrinkage Hole, so that the cured film has a smooth and smooth outside observe.
HHeat Stabilizer	YZA999	0.1-0.5%	25KG	Powder special heat stabilizer, effective effect to reduce the powder coating Yellow change that happens when overbaking.

Packing: PE Bag

# HOSE -

**Fine Chemical Solvent** 

**Automotive** Coatings









### **Fine Chemical Solvent Ethyl3-Ethoxypropionate(EEP)**

CAS NO.: 763-69-9 HS CODE: 2918990090 Hazard Class: UN 32723/III

Technical Specifications	Classi(High-class product)	Technical Specifications	Classi(High-class product)
Purity%	≥99.5≤15	Color (PT-Co)	≤15
Ethyl alcohol%	≤0.1	Boiling point (C)	169
Water content (PPM)	≤500	Density (20t,G/CM3)	0.947-0.953
Acidity (As acetic acid%)	≤0.02		

#### Features:

Excellent levelling property, Excellent color fixing, prevents the silver power from coarsening, turning yellow and darkening slow evaporation rate, excellent solvency, low surface tension, high electrical resistance.

### **Applications:**

Automotives coating (OEM and Refinish), Marine paint, Anticorrosive coating, Silk screen printing ink, Microelectronics industry (As diluents).

### Packing:

lron drum,198kg/drum;IBC,950kg/drum;ISO TANK,20000kg/tank.

### **Fine Chemical Solvent** Methyl 3-methoxypropionate (MMP)

CAS: 3852-09-3

HS CODE:2918990090 Hazard Class: UN 3272 3/III

### **Physical Property**

Item	Data
Appearance	Colorless transparent liquid
Relative molecular mass	118.13
Molecular formula	C5H10O3
Density(g/cm3)	1.01
Refractive index (25°C)	1.4005-1.4040
Flash point°C	47

### **Quality Standard**

ltem	Quality Index
Appearance	Colorless transparent liquid
Ester content %	≥99.0
Acid value(mgKOH/mg)	<0.10
Methanol content%	<0.10
Color (PT-Co)	≤50
Boiling point°C	140-148
Water content %	<0.10

MMP solvent is a moderately volatile ester ether environment-friendly solvent, ether ester, linear structure and molecular center of propionyl makes this material both the other solvents do not have some special properties, such as strong dissolving capacity and strong polar, hydrophilic, these characteristics given its a series of excellent properties, such as volatile completely without residual, increase paint flow flat, to prevent the reflux of silver powder coarse, black and other special features; in coatings, inks, dyes and electronic cleaning with a wide range of uses.

### Features:

The characteristics of MMP in solvent has good dissolving capacity, strong polarity, moderate volatilization rate, low odor; All in the paint film evaporation completely, no residual odor; It can increase the flow of paint, improve film gloss and transparency; It can disperse the toner good, paste and other refractory material; It has special function to prevent the silver powder from coarse and black in paint; It can solve the paint often appear in Gao Guangqing, Guangbai products in high flow and bubble problem; It has assisted antisettling effect in the use of aluminum paste.

### Applications:

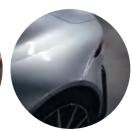
In resin, paint, ink, dye diluent The purpose of water-based resin, paint solvent An electronic cleaning agent, paint remover The purpose of the new automobile coating leveling agent Organic synthetic intermediates

### Packing and storage:

200kg/barrel, Store in a dry and ventilated environment







# Fine Chemical Solvent Dimethyl Phthalate(DMP)

CAS号: 131-11-3 HS CODE: 29173490

Item	Index	Item	Index
Purity%	Colorless transparent liquid	Color(Pt-Co) code No	≤30
Ethyl alcohol%	≥99.0	Density%(20%),g/cm3	1.191-1.198
Water content (PPM)	≤0.01		

### Properties and applications:

- ①This products of transparent, free running or pale yellow oily liquid of aroma odor. The boiling point is 283.7 C.It's made by the esterification of Phthalicanhydride and carbinol.
- ②DMP is Colorless, transparent oily liquid.
- ③DMP is soluble with various cellulosic resins, rubbers, ethylenic resins and has good film forming, adhesion and water proofing properties.
- ④DMP is extensively used as solvent for producing methyl-ethyl ketone peroxide, fluro-containing anticorrosive coatings.
- ⑤DMP is plasticizer for resins of cellulose acetate,ingredient of mosquito- expellant,intermediate for organic synthesis etc.

### Package&Storage:

230kg/drum. Store in dry and ventilated indoor area. Avoid violent collision and rain during transportation.





### **Special Resin For Industrial Coatings**

# Special Resin For Industrial Coatings (1) Thermoplastic Acrylic Resins BN44

Performance	Specifications	Performance	Specifications
Appearance	Colorless	Viscosity(mPa⋅s/25°C)	2500±500
Color (PT-Co)	≤1	Sp.Gr.(kg/dm3)	0.96±0.02
Acid value(mgKOH/g)	<2	Flash point (closed cup°C)	32
Solids content(%)	40~42	Mol.wt.(Mw)	80000g/mole
TG(°C)	~60		

#### Application:

thermoplastic acrylic resin BN44 is an acrylic copolymer. It has excellent compatibility with PVDF resin, widely used in fluorocarbon coatings.

#### **Performance:**

Improving the dispersion of the resin on the pigment, improving the adhesion of the substrate and improve gloss and hardness of the final film. After high temperature baking it has good adhesion for untreated metals (especially aluminum parts), especially after high temperature baking. It has excellent weather resistance, chemical resistance, impact resistance, and heat resistance, excellent hardness and flexibility.

#### Solvent system:

Xylene:about 98%;

Propylene glycol monomethyl ether:about 1%;

### Paint conditions:

PVDF:BN44=7:3

### Packing:

Iron drum,NW 190kg/Drum





# **Special Resin For Industrial Coatings**(2) **Saturated Polyester Resin E3073**

Performance	Specifications
Appearance	Colorless
Color (PT-Co)	≤1
Acid value(mgKOH/g)	<6
Solids content(%)	59-62
Tg(°C)	~60
Viscosity(mPa·s/25°C)	1500±50
Proportion(kg/dm3)	1.04±0.02
Flash point(closed cup°C)	33

#### Application:

Saturated polyester resin E3073 widely used in automotive lacquer systems (combined with CAB531-1)as automotive Metal base paint, solid color paint system, automobile primer, industrial paint, hardware machinery paint, etc.

#### Performance:

Good weather resistance and Excellent flow; Excellent mechanical properties; High hardness, excellent adhesion and flexibility; Excellent water and Chemical resistance.

### Solvent system:

ylene:about 85%; Propylene glycol methyl ether:about 10%; Additional:<5 %

#### Packing:

Closed iron drums; net weight 190 kg/drums

### **Storage information:**

Store in a light-free, heat-free and dry, ventilated environment. Storage under recommended storage conditions, time not more than half a year from the date of production can be used normally; more than one year, recommended inspection combined Use it later.

### Attention:

This product is flammable, explosive danger, storage safety should be given enough attention.

# Special Resin For Industrial Coatings (3) Hydroxyacrylic Resin 2050

Performance	Specifications	Performance	Specifications		
Appearance	Colorless	Viscosity(mPa·s/25°C)	5000-9000		
Color (PT-Co)	≤1	Sp.Gr.(kg/dm3)	0.98±0.02		
Acid value(mgKOH/g)	<5	Flash point (closed cup°C)	33		
Solids (%)	49~52	Hydroxyl value(%)	2		
TG(°C)	55~60				

#### Application:

Hydroxyacrylic resin 2050 is an acrylate copolymer, good stability and consistency, the residual monomer is within 0.3%. Excellent compatibility with amino resin and polyure than e resin. Widely used for automotive paint, solid color and aluminum powder primer, plastic paint, and UV cover primer, etc.

#### Performance

quick-drying, excellent mechanical properties. Good resistance to moisture, heat, chemicals, excellent weather resistance to metals plastic has good adhesion, good comprehensive properties of paint film.

### Solvent system:

butyl acetate:about 99%; Others:<1%

### Manufacturing process:

acrylate monomer copolymerized under the initiator, qualified after dilution.

### Lacquering conditions:

good miscibility with methyl etherified amino resin, butanol etherified amino resin. Based on required hardness and flexibility of paint film to easily adjust the proportion of E2050 and amino resins in a wide range. In addition, E2050 can also be used alone.

### Packaging:

Iron drums, net weight 190kg/drums.





### **Complex Inorganic Color Pigment**

CICP(Complex Inorganic Color Pigment) is a kind of stable chemical physical structure formed by solid-phase reaction of many metal oxides under high temperature calcination (>800°C). High stability, excellent weather resistance, environmental non-toxic.



### **Complex Inorganic Color Pigment**

Item	Specific gravity kg/L	Metal compositior	Acid-proo (1-5)	Alkali esisance (1-5)	Heat resistanc	Light esiskiite 1-8	Weather resistance (1-8)	Oil absorption kg/100kg	РН	Grain size D50(um)
Orange 210 Titanium-chrome yellow PBR-24	4.7	TiCrSb	5	5	900	8	5	17.3	6.7	1.1
Bule 640 Cobalt blue PB-28	4.39	CoAl	5	5	1000	8	5	30.5	8.1	1.2
Green 443 Cobalt titanium green PG-50	5.67	СоТі	5	5	1000	8	5	12.5	8.1	1.2
Black 860 Copper chromium manganese black PBK-28	5.38	CuCrMn	ı 5	5	800	8	5	25.6	6.8	1.2

Packing Multi-ply paper bags, bule 20kg/bag; yellow, green, black25kg/bag.

#### **Features**

Excellent light resistance, weather resistance, high temperature resistance; Good covering power, tinting power, dispersion; no bleeding, no migration; Excellent acid-proof, alkali resistance, chemical resistance; Compatible with most thermoplastic and thermosetting plastic.

#### **Applications:**

- ①Outdoor plastic and masterbatch:such as PVC decorative panels, plastic steel window profles, engineering plastics, master batch and so on:
- ②Coatings:fluorocarbon coatings,powder coatings,coil coatings,automotive coatings,traffic marking coatings,camouflage coatings, aircraft coating, marine coatings, ultra-durable outdoor architectural coatings, printing inks and industrial coatings;
- 3 Building products: cement, concrete, roof construction materials, ceramics, stained glass;
- 4 Environmental areas: food packaging containers, plastic utensils, plastic toys, painting coatings.



### **Polyurethane Insulation Pouring Glue**

Aluminium profile insulation glue is a high-performance polyurethane material, it's a kind of High-density polymer insulation materials formed by high-speed mixing chemical reaction of isocyanate component and polyol component at room temperature. Widely used in thermal insulation material of high-rise building curtain wall, window wall, daylighting top aluminum profile, especially for the winter cold and hot summer with a large outdoor temperature difference.



### **Performance Parameter**

Project indicators	erformance and parameter
Mixing ratio(A:B)	100:89±3
Best construction temperature(°C)	25
Reactivity (gel,sec.)	31±4
Completely curing time(days)	Around6
Hardness after completely curing(shore D)	77±3D
Tensile strength(N/MM2)	42.2
Elongation after break(%)	75
Coefficient of heat conduction(W/M·K)	0.121

### Character

- ①Good energy-saving and insulation effect
- ②Excellent mechanical properties
- ③Flexible&diverse design of Aluminum profile, beautiful appearance and energy saving
- 4 Higher production efficiency of aluminum profile
- ⑤ Saving aluminum consumption of aluminum doors and windows curtain wall

#### Packing

- ①Packing:EST-300A:250Kg/drum, EST-300B:200Kg/drum.
- 2 Storage: Store in a dry, ventilated and cool place, keep the container well sealed, and the ambient temperature is 5-40.