

Product Introduction:

HB-778 is a new type of functional PUA with good dilution, good wearability, good adhesion, benzene-free, halogen-free, clean taste, low viscosity, no irritation, non-toxic, fast curing speed, high hardness and anti-oxygen polymerization inhibition.

Product Features:

- ◆ Good dilution
- ◆ Improve the pliability of the coating
- ◆ Improve the adhesion of formula
- ◆ Both emulsification and ink-water balance are excellent.

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎
○ Unsited ◎ Partially suited ● Suited	

Application

- ◆ UV ink, paint, glue, etc.

Technical information

Chemical composition	Polyurethane acrylate
Active content	100%
Appearance	Transparent liquid
Chromaticity (APHA)	60 Max.
Viscosity (mPa·s, 25℃)	5-12
Functionality	2
Density / (g/cm³, 20℃)	1.02-1.04
Acid Value / (mg KOH/g)	0.2
Polymerization inhibitor (MEHQ) / (ppm)	100-250

Taboo

- ◆ Slight irritation to skin and eyes. Wash with soap and plenty of water immediately after contact. In severe cases, seek medical attention immediately.
- ◆ Applicable fire extinguishing agents: water, foam, dry powder and carbon dioxide.
- ◆ Environmental preventive measures: Do not discharge into the drainage ditch.
- ◆ Flash point: > 100℃
- ◆ Explosive: none
- ◆ Spontaneous ignition point: none

Specification

200 kg/drum

Storage and shelf life

- ◆ Transportation and storage of non-hazardous chemicals
- ◆ Cool, dry and sealed storage
- ◆ Keep away from alkaline substances, oxidants, peroxides, heavy metals and reducing agents.
- ◆ Shelf life: 12 months from the date of production

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Fluorine modified acrylate

HB-UV103

Product Introduction:

HB-UV103 is a 100% solid 4-functional fluorine-modified acrylate. The resin has excellent stain resistance, adhesion and water boiling resistance, as well as excellent leveling and fullness. Through graft modification, fluorosilicone segments can be anchored in the cross-linked network, which makes the anti-pollution effect lasting and stable. At the same time, the resin has low odor, good compatibility and good Solubility with other UV resins.

Product Features:

- ◆ Excellent Antifouling effect
- ◆ Boiling resistance
- ◆ Improve the adhesion of formula
- ◆ Excellent leveling property
- ◆ Scratch resistance of marker pen
- ◆ Improve the pliability of the coating

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsited ◎ Partially suited ● Suited

Application

- ◆ UV antifouling paint

Technical information

Chemical composition

Active content

Appearance

Chromaticity (APHA)

Viscosity (mPa·s, 25℃)

Functionality

Density / (g/cm³, 20℃)

Polymerization inhibitor (MEHQ) / (ppm)

Recommended

Adding about 10% in
pollution effect.

Specification

200 kg/drum

Storage and shipping

- ◆ Transportation and storage
- ◆ Cool, dry and sealed
- ◆ Shelf life: 12 months

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Guangdong Aosite New Materials Co., Ltd.

<https://uvsilicone.com/>



Information

ion	Fluorine modified acrylate
	100%
	Transparent or slightly turbid liquid
A)	35
5°C)	
	4
0°C)	
itor	



addition

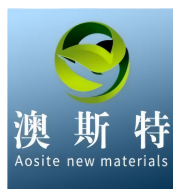
to the formula can achieve good anti-

shelf life

d storage of non-hazardous chemicals
led storage
ths from the date of production



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Modified acrylate

HB-UV1511

Product Introduction:

HB-UV1511 is a modified acrylate polymer with special functionality that promotes curing speed, adhesion, and scratch resistance, and provides chemical resistance, heat resistance, yellowing resistance, and compatibility with other resins.

Product Features:

- ◆ Fast curing speed
- ◆ Good heat resistance
- ◆ Improve adhesion
- ◆ Chemical resistance
- ◆ Yellowing resistance

Applicability

Water-base	Solvent-base
○	○
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsuitable ◎ Partially suitable ● Suitable

Application

- ◆ UV flexo printing, offset printing/screen printing/pad printing, UV ink

Technical information

Chemical composition

Active content

Molecular weight

Color (Gardner)

Viscosity (mPa·s, 25°C)

Amine value

Recommended dosage

10-15% based on the total weight

Taboo

- ◆ Slight irritation to skin. If it occurs, wash with plenty of water immediately and seek medical attention.

Specification

200 kg/drum

Storage and shipping

- ◆ Transportation and storage should be in sealed drums.
- ◆ Cool, dry and sealed. Storage temperature shall not exceed 40°C.
- ◆ Being close to the polymerization and gelation point.
- ◆ Shelf life: 12 months

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Information

ion	Modified acrylate
	100%
	550
	<3
5°C)	750-1350
	110-160

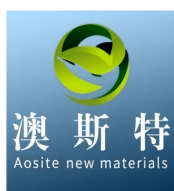
addition
e total formula.

skin and eyes. Wash with soap and
diately after contact. In severe cases,
on immediately.

elf life
d storage of non-hazardous chemicals
led storage, the storage temperature
, and it shall be protected from sunlight
e heat source will cause uncontrollable
ive off a lot of heat.
ths from the date of production

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Acrylate

HB-1700

Product Introduction:

HB-UV3540 is an acrylate resin with UV-curable double bonds. Suitable for industrial coatings, wood coatings, printing ink and leather coatings.

Product Features:

- ◆ Excellent Antifouling effect
- ◆ Scratch resistance of marker pen
- ◆ Improve the Smoothness of the coating

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsited ◎ Partially suited ● Suited

Application

- ◆ Industrial coatings, wood coatings, printing ink and leather coatings

Technical information

Chemical composition

Active content

Appearance

Chromaticity (APHA)

Viscosity (mPa·s, 25℃)

Refractive index

Density / (g/cm³, 20℃)

Acid Value / (mg KOH/g)

Polymerization inhibitor(MEHQ, ppm)

Taboo

Separation may occur again by stirring, and affected.

Chemical usage

- ◆ It must be stirred before use. Recommended solvent is not recommended.
- ◆ Pre-diluted or direct supply. It is especially suitable for direct supply.
- ◆ Add conditions required at paint mixing stage or before use.

Specification

20 KG/drum

Storage and shipping

- ◆ Transportation and storage conditions
- ◆ Cool, dry and sealed
- ◆ Shelf life: 12 months

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Information

ion	Acrylate
	100%
	Light yellow turbid liquid
A)	
5°C)	2900-7500
	1.40-1.42
0°C)	1.05±0.05
OH/g)	
m)	



ar during storage, but it can be mixed
l the product performance will not be

e process

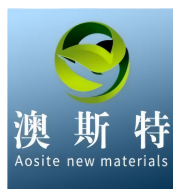
before use. Pre-dilution with
nt can simplify the operation of adding
ectly added to the coating in the form of
y suitable to be added to abrasives.
quiring high shear force or pre-dilution in
varnish.

elf life

d storage of non-hazardous chemicals
led storage
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Polyurethane acrylate

HB-UV5303

Product Introduction:

HB-UV5303 is a trifunctional polyurethane polyester acrylate, which has the characteristics of fast curing speed, good pigment wettability (especially suitable for being the main resin of white color ink), good surface dryness, good pliability of the coating, low shrinkage and good adhesion.

Product Features:

- ◆ Improve the pliability of the coating
- ◆ Good wettability
- ◆ Low shrinkage
- ◆ Fast curing speed
- ◆ Improve the adhesion of formula

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsited ◎ Partially suited ● Suited

Application

- ◆ UV varnish, UV ink paint, UV nail polish, UV yellowing resistant paint, UV tinplate printing ink.

Technical information

Chemical composition

Active content

Appearance

Viscosity (mPa·s, 25℃)

Functionality

Density / (g/cm³, 20℃)

Acid Value / (mg KOH/g)

Polymerization inhibitor(MEHQ, ppm)

Taboo

- ◆ Hypotoxicity. Slightly irritant. In case of contact with skin, wash with soap and plenty of water. In case of contact with eyes, seek medical attention.
- ◆ Applicable fire extinguishers: water, foam, dry powder and carbon dioxide.
- ◆ Environmental protection: Do not discharge into the drainage ditch.

Specification

200 KG/drum

Storage and handling

- ◆ Transportation and storage: Keep in a cool, dry and sealed container.
- ◆ Shelf life: 12 months

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Information

ion	Polyurethane acrylate
	100%
	Lightly yellow viscous transparent liquid
5°C)	23500-38000
	3
l°C)	
OH/g)	
m)	



ht irritation to skin and eyes. Wash with water immediately after contact. In severe attention immediately.

inguishing agents: water, foam, dry dioxide.

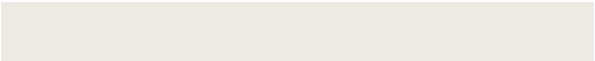
eventive measures: Do not discharge into

elf life

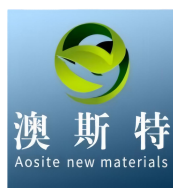
d storage of non-hazardous chemicals

led storage

ths from the date of production



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Glycidylamine-based epoxy resins

PC3533

Product Introduction:

PC3533 is glycidylamine-based epoxy resin, and its cured product has the characteristics of good heat resistance, high mechanical strength, low curing shrinkage, good ultraviolet resistance and water resistance. Because of its low viscosity, it is often used as a temperature-resistant active epoxy diluent.

Product Features:

- ◆ Heat Resistance
- ◆ Low curing shrinkage
- ◆ Ultraviolet and water resistance
- ◆ Low viscosity

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsuitable ◎ Partially suitable ● Suitable

Application

- ◆ High temperature epoxy diluent
- ◆ Pultrusion and winding to form carbon fiber and glass fiber composites
- ◆ Heat-resistant epoxy resin castable by vacuum casting (RTM, VARTM) and automatic pressure gel (APG).
- ◆ Pouring and sealing of micro-motor components
- ◆ Electrical insulating material

Technical information

Chemical composition

Epoxy value (eq./100g)

Appearance

Gardner

Viscosity / (CPS, 60°C)

Epoxy equivalent (g/100g)

Volatile matter (%)

Polymerization inhibitor (MEHQ, ppm)

Taboo

- ◆ When using, should avoid contact with skin and eyes. When using accelerator, should avoid contact with skin and eyes. When using accelerator, should avoid contact with skin and eyes. When using accelerator, should avoid contact with skin and eyes.
- ◆ If this product adheres to the skin, it should be cleaned with acetone.

Specification

20kg/drum; 200 KG

Storage and shipping

- ◆ This product is non-flammable and non-toxic. It should be stored in a cool, dry place and transported in a cool, dry place.
- ◆ Cool, dry and sealed.
- ◆ Shelf life: 6 months

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[*https://uvsilicone.com/*](https://uvsilicone.com/)



Information

ion	Glycidylamine-based epoxy resins
10g)	0.85-0.95
	Colorless to Yellowish transparent liquid
	≤ 5
1°C)	50-150
g/eq.)	105-108
	≤ 1.0

m)

ould pay strict attention to the addition of control of curing temperature, especially nt, we should pay more attention to the to prevent explosion polymerization.

heres to skin and clothes, it should be e in time.

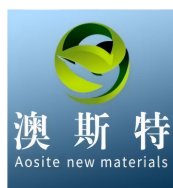
/drum

Self life

n-toxic but flammable, so it should be ed away from fire sources and heat led storage is from the date of production



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Modified hydroxyacrylic acid solution

HB-3703

Product Introduction:

Hb is a modified hydroxyl acrylic acid solution, which can increase the smoothness; Improve hydrophobicity and oleophobicity, has Hydrophobic effect of lotus leaf, and can provide anti-marking pen wiping performance. Excellent compatibility

Product Features:

- ◆ Hydrophobic effect of lotus leaf
- ◆ Anti-marking pen
- ◆ Oleophobicity
- ◆ Good compatibility

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsited ◎ Partially suited ● Suited

Application

- ◆ Solvent coating

Technical information

Chemical composition

Solid content

Appearance

Viscosity (mPa·s, 25℃)

Density / (g/cm³, 20℃)

Recommended

2.5-5% based on the

Chemical usage

Can be added at any

Specification

25 KG/drum

Storage and shipping

- ◆ Transportation and storage
- ◆ Cool, dry and sealed
- ◆ Shelf life: 24 months

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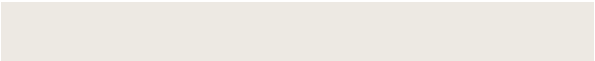
Information

ion	Modified hydroxyacrylic acid solution
	25±3%
	Colorless or yellowish transparent liquid
5℃)	5-30
0℃)	0.93-0.97

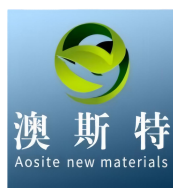
addition
total formula.

process
stage in the production process.

shelf life
d storage of non-hazardous chemicals
led storage
ths from the date of production



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Modified hydroxyacrylic acid solution

HB-3705

Product Introduction:

Hb is a modified hydroxyl acrylic acid solution, which can increase the smoothness; Improve hydrophobicity and oleophobicity, has Hydrophobic effect of lotus leaf, and can provide anti-marking pen wiping performance. Excellent compatibility

Product Features:

- ◆ Hydrophobic effect of lotus leaf
- ◆ Anti-marking pen
- ◆ Oleophobicity
- ◆ Good compatibility

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	◎
Paint	Varnish
◎	◎

○ Unsited ◎ Partially suited ● Suited

Application

- ◆ Solvent coating

Technical information

Chemical composition

Solid content

Appearance

Viscosity (mPa·s, 25℃)

Density / (g/cm³, 20℃)

Recommended dosage

1-5% based on the total weight

Chemical usage

Can be added at any time

Specification

25 KG/drum

Storage and shelf life

- ◆ Transportation and storage should be in original packaging
- ◆ Cool, dry and sealed
- ◆ Shelf life: 24 months

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Information

ion	Modified hydroxyacrylic acid solution
	50±3%
	Colorless or yellowish transparent liquid
5℃)	100-1000
0℃)	1.01-1.05

addition

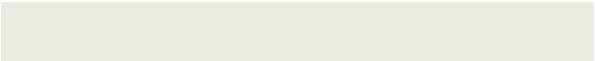
total formula.

the process

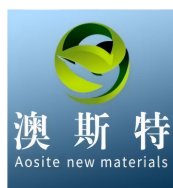
stage in the production process.

shelf life

Storage of non-hazardous chemicals
Storage
months from the date of production



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Product Introduction:

This is a specially modified UV-curable adhesion resin with dual functionality. It has excellent adhesion, especially for PET materials. It also has good flexibility, good crack resistance, and resistance to yellowing and QUV aging.

Product Features:

- ◆ Good flexibility
- ◆ Resistant to yellowing Good adhesion to PET substrate
- ◆ Good adhesion to PET substrate
- ◆ Good QUV resistance

Application

- ◆ Plastic UV coatings, UV inks

Recommended addition

10-15% based on the total formula.

Specification

20KG pail;
200KG drum.

Technical information

Chemical composition	Polyurethane Acrylic Resin
Appearance	Clear, transparent liquid
Functionality	2
Color	<1
Viscosity (mPa·s, 25°C)	11000~19500

Precautions

- ◆ Wear protective gloves during operation and avoid contact with skin, eyes and clothing;
- ◆ If contact occurs, wash with soap and water;
- ◆ For detailed instructions, please refer to the MSDS.

Storage and shelf life

- ◆ Store in a cool, well-ventilated indoor environment to prevent gelation and polymerization;
- ◆ Under normal storage conditions, The shelf life is 12

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