

Product Introduction:

HEMA reacts with melamine-formaldehyde (or urea-formaldehyde) resins, epoxy resins and other raw materials to manufacture two-component coatings. When incorporated into high-end automotive paints, it maintains long-lasting mirror-like gloss. It can also be utilized as adhesives for synthetic textiles and monomer for medical polymers. It serves as a crosslinking monomer for the production of solvent-based or emulsion acrylate adhesives. Featuring polymerizable vinyl groups and reactive hydroxyl groups, it readily undergoes homopolymerization to form flexible resins with outstanding gloss, transparency and weather resistance, which are used as materials for contact lenses. Additionally, it acts as a modifier for resins used in fiber, nonwoven fabric treatment and paper processing resins.

Applicability

Water-base



Solvent-base



Solvent-less



Bicomponent



Paint



Varnish



○ Unsited ◎ Partially suited • Suited

Application

◆ It is mainly used for modification of resins and coatings. When copolymerized with other acrylate monomers, it produces acrylic resins bearing reactive hydroxyl groups on

◆ These resins are capable of esterification and crosslinking reactions to form insoluble resins and boost adhesion performance, and can be applied as fiber treatment agents.

Technical information

Chemical composition

Molecular Formula	C6H10O3
Appearance	Transparent liquid
Water solubility	Soluble
Molecular weight	130.14
Density (20 °C g/cm3)	1.073
Boiling point (3.5 mm Hg(lit.))	67 °C
Flash point	207 °F
Specific gravity (25°C)	1.069–1.075
Refractive index (25°C)	1.4505
Melting point	-12°C
Relative Density (20/4°C)	1.074

Recommended addition

Chemical usage process

Manner of packing

200kg/drum

Storage and shelf life

◆ Transportation and storage of non-hazardous chemicals

◆ Cool, dry and sealed storage, the storage temperature shall not exceed 40°C, and it shall be protected from sunlight

◆ Shelf life: 12 months from the date of production

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