

FEISPARTIC F420

I Chemical formula and molecular weight

- Chemical Name: Aspartic Acid, Polyaspartic Polyurea Resin, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-,1,1',4,4'-tetraethyl ester
- ELINCS No.: 429-270-1
- CAS No.: 136210-30-5

II Properties and application

● FEISPARTIC F420 is Aminofunctional co-reactant for polyisocyanates, it's the same model as NH1420, could be used for the formulation of high-solids, two-component polyurethane topcoats and solvent-free coating materials.

● FEISPARTIC F420 could serve as chain extender or R component in polyurea coating. It could also react with -NCO functional HDI trimmer from which longer gelling time and excellent yellow resistance can be achieved. Longer gelling time can also be obtained when reacting with MDI pre-polymer. Hybrid of polyurea and polyurethane can be achieved when FEISPARTIC F420 is blended with hydroxyl-functional resin such as acrylic, alkyd resin. FEISPARTIC F420 offers higher solid content and faster drying time than ordinary polyurethane. It is widely applied on formulating variety of protective coatings.

● Main Feature

1. High solid content with low viscosity
2. Faster curing time in aliphatic system
3. Offering excellent physical properties like high hardness, flexibility, elongation(400%), tear and tensile strength(25MPa).
4. Great weathering and saline water resistance
5. Cost efficiency

III Quality standard

Item	Specifications
Molecular Weight	554
Appearance	Colorless transparent liquid
Solid Content	97%±2%
Amine value(mg KOH/g)	199-203
Amine Equivalent (g/mol)	277
Viscosity mpa.s/25°C	900-1300
Relative density(25°C)	1.06±0.02
Flash Point(°C)	97

IV Package and storage

- 200 Kgs/Drum, 4 Drums/Pallet, 80 Drums/Container or 1Ton/IBC tank.
- FEISPARTIC F420 resin must be stored in tightly sealed containers to prevent from contacting with moisture. Recommended storage temperatures is 0 ° -40 ° C (32 ° -104 ° F). The shelf life of FEISPARTIC F420 is 12 months when stored in closed original containers at 77°F (25°C).