

C1420 Polyaspartic Resin

Technical Data Sheet

JUNAIMEI NEW MATERIALS | POLYASPARTIC RESIN



聚耐美 | 天冬纯聚脲

Product Description

A solvent-free resin containing secondary amino groups reactive with -NCO; comparable to Covestro NH 1420.

Key Features

1. High solids and low viscosity; suitable for high-solids, low-viscosity environmentally responsible coatings, with application solids up to 100%.
2. High reactivity; reacts with HDI trimer to reach tack-free drying in about 15 minutes, improving production efficiency.
3. Coatings show excellent body, flow and leveling, and gloss.
4. Films provide outstanding weatherability, low-temperature flexibility, water resistance, solvent resistance, acid and alkali resistance, and salt-spray resistance.
5. High hardness, up to 2H, and particularly strong abrasion resistance, with abrasion loss ≤ 20 mg (500 r/750 g).
6. Excellent adhesion to ABS, PC, PVC and many metals.
7. Excellent compatibility with most hydroxy acrylic resins, CAB and similar resins.
8. Can react with the company's elastic curing agents to form elastomeric materials with excellent mechanical properties (400% elongation and 25 MPa tensile strength), or with rigid curing agents, HDI trimer or dimer to form rigid coating films with hardness up to 2H.
9. Can be used in the R component of SPUA (spray polyurea elastomer) as a chain extender and main resin.

Typical Properties

Property	Typical Value	Test Method / Unit
Appearance	Colorless to pale yellow liquid	Visual
Amine value	199-203	
Color value (APHA)	Max. 250	
NH equivalent (g/mol)	277	Theoretical
Equivalent OH content, %	6.13-6.14	
Relative density (25 deg C)	1.06	
Viscosity (mPa.s/25 deg C)	900-2000	
Solids content	97 +/- 2%	
Flash point	94	deg C

Note: Values shown are typical only and, unless expressly agreed in writing, are not to be regarded as specifications or guaranteed values.

Applications

Waterproofing, anticorrosion coatings, flooring, blade coatings, adhesives, and automotive repair materials.

Packaging

20 kg or 200 kg per drum

Shelf Life

When stored in the original, unopened and undamaged sealed container at temperatures not exceeding 40 deg C, the product has a shelf life of one year.

Handling Notes

1. This product is combustible. Store at low temperature, not above 40 deg C, away from ignition sources and in a cool, dry and well-ventilated area. Protect from moisture, heat and foreign materials. Shelf life is one year.
2. Coatings prepared with this product should be cured for one week before performance testing.

Regulatory Status

Please refer to the Material Safety Data Sheet (MSDS). For chemical inventory information, contact your dedicated sales representative.

Safety Precautions

Please refer to the Material Safety Data Sheet (MSDS), available from your dedicated sales representative.

Health and Safety Information

Appropriate health and safety instructions must be observed when handling chemical products. For products not supplied by the company, follow the industrial hygiene and safety precautions provided by the relevant manufacturer. Before using the products described, read and understand the information on hazards, proper operation and handling. Such information is available from the MSDS, product labels and other sources. For further information, contact your dedicated sales representative or technical information department.

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