01 / PRODUCT POSITIONING

GD-1422 Polyaspartic Ester Resin

Resin for high-solids coating formulations

An amino-functional polyaspartic ester resin. Use it as the sole resin or blend it with GD-1520, then pair the resin with a compatible aliphatic polyisocyanate hardener in a two-component formulation.

Develop industrial finishes, anticorrosive coatings, waterproofing and flooring formulations. Validate compatibility and film performance in the intended system.



Key technical information

Color APHA ≤250	Viscosity at 25°C 1000–2000 mPa·s
Amine value (company ref.) Approx. 200 mg KOH/g	Resin packaging 200 kg per drum

The reactivity classification requires technical confirmation. Measure pot life and drying time in the intended formulation.

Technical data and acceptance

Product specifications

Solids content 99.9%
Color APHA ≤250
Viscosity at 25°C 1000–2000 mPa·s

Company reference value

Amine value Approx. 200 mg KOH/g

Approximate values

Equivalent (source unit) 280 g/mol
Density at 20°C Approx. 1.08 g/cm³
Flash point Approx. 100°C

Equivalent and dosing

The source lists 280 g/mol. Confirm the active-hydrogen equivalent weight and its unit before calculating hardener dosage. Do not dose from this figure.

Use the agreed specifications, contract and batch COA for acceptance. Consult the SDS for safety data.

Applications and formulation

Develop high-solids industrial finishes, anticorrosive and weather-resistant coatings, waterproofing and flooring systems. Hydroxyl-functional acrylic resin blends require trials.

N-200A

Candidate hardener for clear topcoats and high-appearance finishes.

N-500A

Candidate hardener for flexible waterproofing, corrosion protection and flooring.

GD-1520

Evaluate GD-1520 for a longer working and leveling window. Compare pot life and drying time with GD-1422 in the intended formulation.

Validate before use

Validate compatibility, reactive equivalents, pot life, surface and through-drying, substrate adhesion, mechanical properties, weathering and chemical resistance. Trial the substrate and application method.

This resin TDS specifies no fixed A:B mass ratio, pot life, coverage, film thickness, coat count, recoat interval, coating service life or warranty period.

Packaging, storage and safety

Packaging

200 kg per drum of GD-1422 resin.

Storage and shelf life

Store sealed in the original container at 0–40°C and protect from moisture. The source gives conflicting shelf-life temperatures. Confirm the period from the batch label and written delivery documents.

Substitution

NH 1422 is a reference for similar applications. Validate compatibility and target performance before substitution, blending or dilution.

Safe handling

Keep moisture away from the hardener. Read the SDS for the resin and hardener before handling. Follow its ventilation and eye, hand and respiratory protection requirements.

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