



Technical Data Sheet

TYPE PRODUCT	: Polyaspartic Resin
<u>PRODUCT DATA</u>	: BENASP 1420
APPEARANCE	: Light yellow transparent liquid
NON-VOLATILE MATTER (%)	: $97 \pm 2\%$
NH EQUIVALENT (g/mol)	: approx. 276
AMINE VALUE (mg KOH/g)	: 195 ~ 205
VISCOSITY [mpa·s] (25 °C)	: 850 - 1800
DENSITY (relative to water at 25°C)	: 1.06 ± 0.02
FLASH POINT, approx (°C)	: 90 - 95

SPECIAL PROPERTIES AND USE

- This product is a solvent-free, high-solids, low-viscosity resin that can be formulated into environmentally friendly coatings.
- It exhibits high reactivity and can react with HDI trimer, achieving surface dryness within 15 minutes, thereby enhancing production efficiency.
- The coating film exhibits excellent fullness, leveling properties, and gloss.
- The paint film also offers outstanding weather resistance, low-temperature flexibility, water resistance, solvent resistance, acid and alkali resistance, and salt spray resistance.
- It has high hardness (up to 2H) and exceptional abrasion resistance [abrasion loss ≤ 20 mg (1000 cycles / 1000 g)].
- It shows excellent adhesion to plastics such as ABS, PC, and PVC, as well as to various metals.
- This product is highly compatible with most hydroxy acrylic resins, CAB, and similar materials.

- It reacts with elastic curing agents to produce flexible materials with excellent mechanical properties (elongation of 400%, tensile strength of 25 MPa), and can also react with HDI trimer (or dimer) to form rigid coatings (hardness of 2H).
- It is used as the R component in SPUA (Spray Polyurea Elastomer) systems, serving as both a chain extender and a primary resin.
- Used in various high-end paints, such as automotive coatings and wood finishes, to enhance film fullness, gloss, and hardness, as well as to accelerate drying.
- Suitable for protective topcoats in both heavy-duty and light anti-corrosion applications, including steel structures and oil pipelines.
- Applicable in areas such as foam landscape materials and concrete waterproofing systems.
- Used in wind turbine blade coatings, including gel coats, putties, and topcoats for wind turbine blades.

PACKAGING

- In 200 KG net drums / 25 KG net drums / 1000 KG net IBC

STORAGE & SHELF LIFE

- The shelf life of the resin under the mentioned storage conditions is 1 year.
- The material should be stored indoors in original, unopened, undamaged container in a dry place
- Recommended storage temperature: 0 - 30 °C.
- Protect from moisture, heat and foreign material.

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