

Technical Data Sheet

TYPE PRODUCT	: Polyaspartic Resin
<u>PRODUCT DATA</u>	: BENASP 1520
APPEARANCE	: Light yellow transparent liquid
NON-VOLATILE MATTER (%)	: $97 \pm 2\%$
NH EQUIVALENT (g/mol)	: approx. 291
AMINE VALUE (mg KOH/g)	: 190 ~ 200
VISCOSITY [mpa·s] (25 °C)	: 800 - 2000
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.
- 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 (500 cycles / 750 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.

- Widely used in automotive paint formulations, significantly enhancing the fullness, gloss, and hardness of the paint film while accelerating curing.
- Suitable for high-end industrial and wood coatings, especially in applications requiring high hardness and abrasion resistance.
- Applicable as a topcoat for protective coatings in both heavy-duty and light-duty anti-corrosion applications, such as steel structures and petroleum pipelines.
- Suitable for wind turbine blade coatings, including gel coats, putties, topcoats, and other related fields.
- Thanks to its 100% solid content, low viscosity, excellent wetting properties, and broad compatibility, this resin is widely used for grinding high-concentration pigment pastes. It is especially ideal for automotive refinishing paints where high-concentration universal pigment pastes are required. Pigment pastes ground with this resin can achieve up to 100% solids, with titanium dioxide content reaching approximately 70%. It is also highly effective for grinding high-pigment carbon black, delivering superior blackness compared to conventional acrylic resins.

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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