



BASONOL® HPE 1170 B

Hyperbranched Polyester Polyol

BASONOL® HPE 1170 B hyperbranched polyester:

Highly functional
(-OH and -COOH groups)

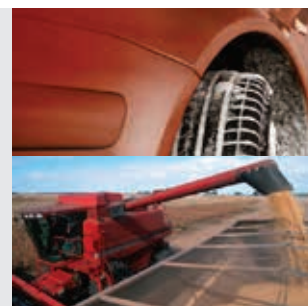
- Excellent hardness
- Excellent chemical resistance

More sphere-shaped than linear

- Low chain entanglement → lower viscosity in solution → higher solids (lower VOC)

Resin Properties

Solids Content	70%
Solvent	n-Butyl Acetate
Tg	18°C
Viscosity	4,400 cP
OH # on solids	280 mg KOH/g
Acid # on solids	85 mg KOH/g
OH equivalent weight	244 g/eq



Applications: OEM & Refinish Clearcoat & Basecoat, Agriculture & Construction Equipment Topcoats

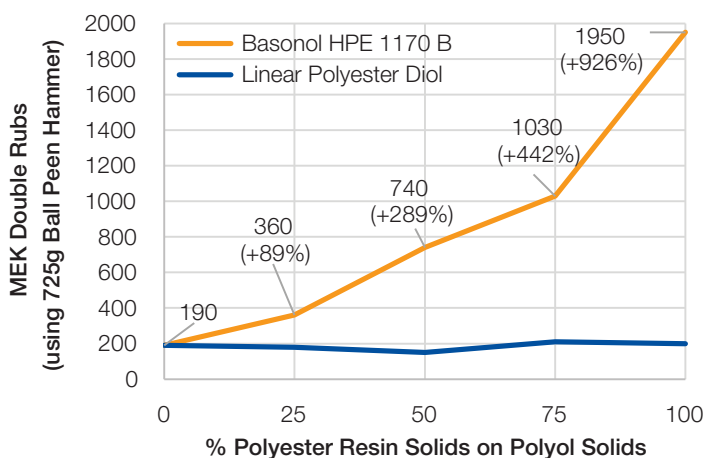
BASONOL[®] HPE 1170 B

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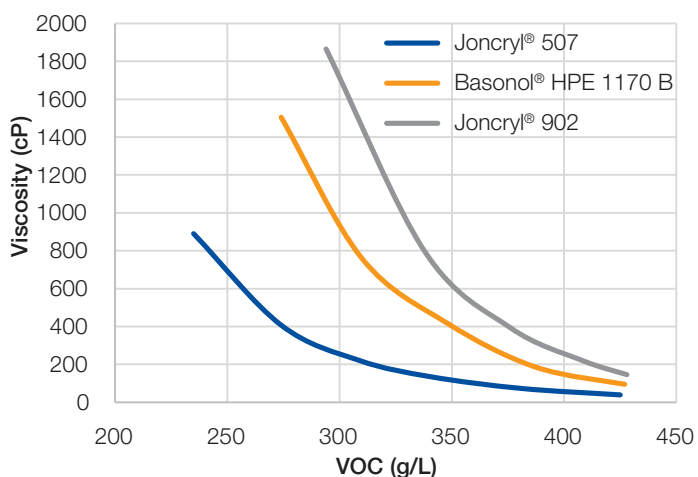
BASONOL[®] HPE 1170 B hyperbranched aliphatic polyester polyol is a highly functional, high solids co-binder when combined with a high solid acrylic polyol improves scratch and chemical resistance while increasing pot-life and extending open time of coatings for various applications.

- Use BASONOL HPE 1170 B as a co-binder (5-30%) on total polyol solid for clearcoat and topcoat applications
- Combine a high solid acrylic polyol with BASONOL HPE 1170 B to increase pot-life and extend open time of applied coatings.
- Use BASONOL HPE 1170 B for improved scratch resistance and reflow properties

MEK Double Rubs for JONCRYL[®] 500 Based 2K Clearcoats Crosslinked with BASONAT[®] HI 190 B/S NG, Cured for 30 Minutes at 80°C



Viscosity vs. VOC Content for 2K Polyurethane Contents Using BASONAT[®] HI 190 B/S NG and n-Butyl Acetate



Why BASONOL[®] HPE 1170 B

- Improved film properties in lower VOC coatings
- Improved chemical resistance
- Longer pot life
- Improved scratch resistance
- Better reflow characteristics
- Decreased curing temps with better performance (decreased costs)

Applicable Resin Systems

- High Solids 2K PU
- Conventional / medium solid 2K PU
- 1K amino resin systems

Contacts

Please contact our technical service department for more help on formulating with products from the BASONOL Line.

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