TECHNICAL DATA SHEET

Product code: 400312

DOMACRYL 5503 75 BAc

Hydroxy Acrylic Resin

Specification:

Property	Range	Method / According to standard
Non-volatile matter	74 - 76%	MH1155 / ISO 3251
Acid value on solid resin	max. 12 mg KOH/g	MH1051 / ISO 2114
Hydroxyl value on solid resin	130 - 145 mg KOH/g	MH1052 / ISO 4629
Viscosity, 23 °C	5000 - 7000 mPa·s	MH1007 / ISO 3219
Colour	max. 50 APHA	MH1125 / ISO 6271

Typical properties:

Property	Value
Density	1 kg/L
Flash point	25 °C
Hydroxyl content on solid	4.1%
Water content	max. 0.1 wt. %
Bio-based content on solid	25%
Total renewable content on delivery form	18%

Solubility:

- Soluble in esters, glycol ethers, glycol esters and ketones.
- Limited solubility in aromatic hydrocarbons.

Compatibility:

- Compatible with isocyanate resins: HDI- isocyanurate, HDI-biuret, Desmodur Z 4470.
- Broad compatibility with similar acrylic resins.

Applications:

- High reactive hydroxy acrylic resin intended for crosslinking with isocyanate resins.
- Coatings based on Domacryl 5503 75 BAc have very good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability.
- Used for at room temperature fast drying two-pack VOC compliant coatings at low spray viscosity for automotive refinishing (clear coats and solid colour top coats) and industrial paints.

Storage:

The resin should be stored indoors in its original, unopened and undamaged container in a dry place at storage temperatures below 35 °C, for up to 12 months. Exposure to direct sunlight should be avoided.

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