TECHNICAL DATA SHEET

Product code: 417990

DOMACRYL 539 50 BAc

Hydroxy Acrylic Resin

Specification:

Property	Range	Method / According to standard
Non-volatile matter	50 - 52%	MH1155 / ISO 3251
Acid value on solid resin	15 - 20 mg KOH/g	MH1051 / ISO 2114
Hydroxyl value on solid resin	60 - 70 mg KOH/g	MH1052 / ISO 4629
Viscosity, 23 ºC	4000 - 6000 mPa·s	MH1007 / ISO 3219
Colour	max. 100 APHA	MH1125 / ISO 6271

Typical properties:

Property	Value
Density	1 kg/L
Flash point	24 °C
Hydroxyl content on solid	2%
Water content	max. 0.1 wt.%

Solubility:

- Soluble in toluene, acetone, ethyl acetate, n-butyl acetate, n-butanol, methoxy propyl acetate and methyl isobutyl ketone.
- Limited solubility in aromatic solvent 100 and xylene.

Compatibility:

- Compatible with isocyanate resins: HDI-isocyanurate, HDI-biuret, Desmodur L 75, Desmodur IL, Desmodur HL and other binders: nitrocellulose (ester soluble), CAB 381-05.
- Limited compatibility with Domalkyd 5322.
- Incompatible with Domalkyd 5261 70%.

Applications:

- Highly reactive hydroxy acrylic resin intended for crosslinking with isocyanate resins, with a fast build-up of hardness.
- Good balance between hardness and flexibility.
- Used for industrial wood two-pack polyurethane primers and top coats.
- Supply form in butyl acetate is suitable for aromatic-free systems.
- Crosslinking with aliphatic isocyanates and the use of CAB is recommended for the formulation of non-yellowing finishing.

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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