Product code: 477680

DOMACRYL 5485 75 BAc/MAK

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	135 - 155 mg KOH/g	MH1052 / ISO 4629
Viscosity, 23 ºC	8000 - 12000 mPa·s	MH1007 / ISO 3219
Colour	max. 50 APHA	MH1125 / ISO 6271

Typical properties:

Property	Value
Solvent ratio	Butyl acetate / Methyl Amyl Ketone = 10 / 90
Density	1 kg/L
Flash point	25 °C
Hydroxyl content on solid	4.2%
Water content	max. 0.1 wt.%
Bio-based content on solid	10%
Total renewable content on delivery form	7.5%

Solubility:

- Soluble in xylene, toluene, acetone, ethyl acetate, n-butyl acetate, methoxy propyl acetate and methyl isobutyl ketone.
- Limited solubility in aromatic solvent 100 and aromatic solvent 150.

Compatibility:

Compatible with isocyanate resins: HDI-isocyanurate, HDI-biuret, and other binders: Vinyl VAGH, nitrocellulose (ester soluble), majority of other Domacryl hydroxy resins.

Applications:

- High reactive hydroxy acrylic resin intended for crosslinking with isocyanate resins.
- Coatings based on Domacryl 5485 75 BAc/MAK have good balance between hardness and flexibility, with excellent mechanical properties and superior outdoor durability.
- Used for room temperature drying or forced drying two-pack systems for automotive refinishing (clear and pigmented top coats).
- Suitable for high solid coatings – low VOC systems at spraying viscosity.
- Crosslinking with aliphatic isocyanates is recommended for the formulation of non-yellowing finishing.
- Physical drying can be accelerated with the addition of CAB resins.
- Appropriate for Direct-to-metal (DTM)

Issue Date: March 2025

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.