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	7%
Maximum ISSC PLUS-certified content allocated using the mass balance approach, on a dry solids basis	13%

Remarks:

- The resin contains 7% bio-based content derived from renewable, plant-based feedstocks.
- The share of ISCC PLUS certified material is determined individually for each delivery based on the applicable mass balance allocation and is specified in the corresponding Sustainability Declaration. The validity of the ISCC PLUS certificate can be verified via the official website (https://iscc-system.org/).

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).

Copyright © Helios Resins & Atcoat | **www.resinshelios.com** | **www.atcoat.com**

- 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)

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.

Disclaimer
This data is based on experience, for its completeness, we assume no liability. As we take no influence on the processing, it lies within the obligation of the customer to test, whether it is suitable for the intended purpose, before using the product. Any change in the processing procedure, the environmental conditions or the failure to comply with instructions may unfavorably influence the result. This Technical Datasheet is available on our website at www.helios.si. Should there be any discrepancies between this document and the version that appears on the website, then the version on the Website will take precedence.