

Product code: 417990

DOMACRYL 539 50 BA_c

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 °C	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.

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.

TECHNICAL DATASHEET

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

Issue Date: March 2025

Page: 1/1