

Product code: 401848

DOMACRYL 5109 85 Bac/Ac

UHS Hydroxy Acrylic Resin

Specification:

Property	Range	Method / According to standard
Non-volatile matter	84 - 86%	MH1155 / ISO 3251
Acid value on solid resin	max. 10 mg KOH/g	MH1051 / ISO 2114
Hydroxyl value on solid resin	160 - 180 mg KOH/g	MH1052 / ISO 4629
Viscosity, 23 °C	8000 - 12000 mPa·s	MH1007 / ISO 3219
Colour	max. 50 APHA	MH1125 / ISO 6271

Typical properties:

Property	Value
Solvent ratio	Butyl acetate / Acetone = 1 / 1
Density	1 kg/L
Flash point	30 °C
Hydroxyl content on solid	5.2%
Water content	max. 0.1 wt.%

Remarks:

Coatings based on Domacryl 5109 85 Bac/Ac requires at least 5-times higher amount of curing catalyst.

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:

- » Highly reactive hydroxy acrylic resin intended for crosslinking with isocyanate resins. It has a broad compatibility with similar acrylic resins.
- » Coatings based on Domacryl 5109 85 Bac/Ac 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 and general metal coatings (clear and pigmented top coats).
- » Supply form in butyl acetate is suitable for aromatic-free systems and gives ultra high solid systems at spraying viscosity (VOC ≤ 300 g/l).
- » Suitable for DTM (direct-to-metal) application.
- » Crosslinking with aliphatic isocyanates is recommended for the formulation of non-yellowing finishing.
- » Physical drying can be accelerated with the addition of CAB resins.

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

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Page: 2/2