

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.

**Note:** The information contained herein is provided in good faith and is to the best of our knowledge accurate, but we assume no liability for its accuracy or completeness. Therefore, the buyer is advised to determine the suitability of this product for the intended use. We retain the right to make any changes according to technological progress or further developments. For safety information please refer to the current Material Safety Data Sheet.

Edition: June 2023

Helios TBLUS, d.o.o. | Količevo 65, 1230 Domžale, Slovenia | T +386 1 722 40 00  
info@resinshelios.com | [www.resinshelios.com](http://www.resinshelios.com)  
Part of KANSAI PAINT.