

Bayhydrol® UV 2923

A waterborne UV curable polyurethane dispersion with excellent stability for pigmented kitchen cabinets and architectural doors



Manufacturers of kitchen cabinets and architectural doors desire robust, faster drying and improved block resistant waterborne UV curable pigmented coatings. Bayhydrol® UV 2923 delivers these key features, with the added benefit of excellent storage stability.

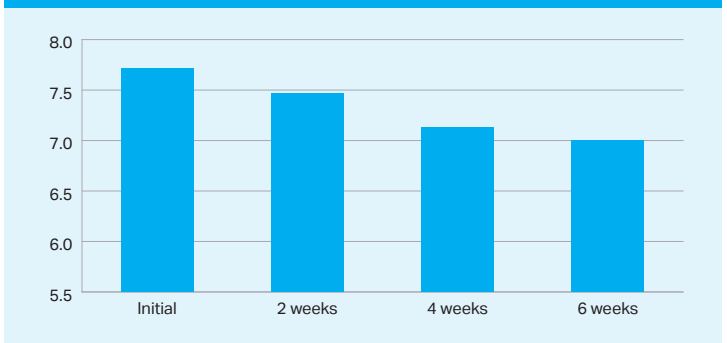
Bayhydrol® UV 2923	(approximate values)
Solid content (%)	38-42
pH	7.0-8.5
Viscosity [mPas]	<800
Bio-based content	17%

Property	Bayhydrol® UV 2923 (Low gloss pigmented)
Pigment stability (50°C after weeks)	No settling
pH stability (50°C)	6 weeks
AWI chemical resistance	118
Boiling water resistance (1 hour)	No effect
Steel wool mar resistance test (10 double rub)	No gloss reduction
Scrape adhesion (5 kg)	Pass
Water flash time ¹	5 minutes
Block resistance with flash/bake ²	6 minutes

¹ 1 min. room temp. / 4min. 140°F

² 1 min. room temp. / 4min. 140°F / 1 min. cool down

Neat resin pH stability at 50°C



Key requirements for resins of the future.

- Excellent storage **stability**
- **Fast drying / fast water release / block resistant**
- Excellent for **pigmented** coatings
- **Improved chemical resistance** (over comparable UV PUDs)
- **Stain resistant**
- **Lower VOC** formulation possible (less than 50 g/L)
- **17% bio-based**



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