

Improved Dispersions for Bismuth Vanadate

with **Borchi[®] Gen 1757** Dispersant



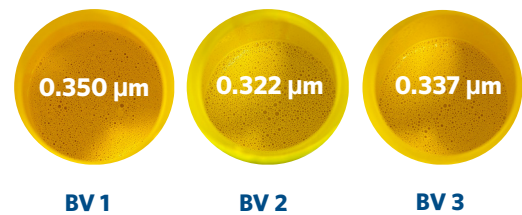
Low and flowable viscosity, very small particle size, great color development

Grind Formulations with Various Bismuth Vanadate (BV) Grades

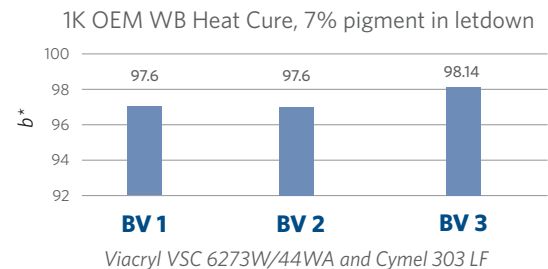
	Material	Supplier	BV 1	BV 2	BV 3
Borchi[®] Gen 1757 (100%)	Dispersant	Milliken	6.50	6.50	6.50
Borchi [®] Gen PN	Rheology Modifier	Milliken	0.50	0.50	0.50
Borchers [®] AF 1171	Defoamer	Milliken	0.50	0.50	0.50
Deionized Water	Solvent	—	27.50	27.50	27.50
Pigment (BV 1)	Bismuth Vanadate (PY 184)	—	65.00	—	—
Pigment (BV 2)			—	65.00	—
Pigment (BV 3)			—	—	65.00
TOTAL			100.00	100.00	100.00
DOP			10%	10%	10%

Media: Glass beads | Media size: 2 mm | Media amount: 150 g | Time: 1h in Lau shaker

Smaller Particle Sizes µm

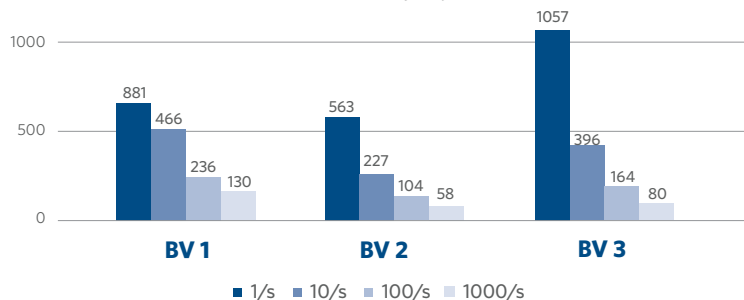


High b* Values

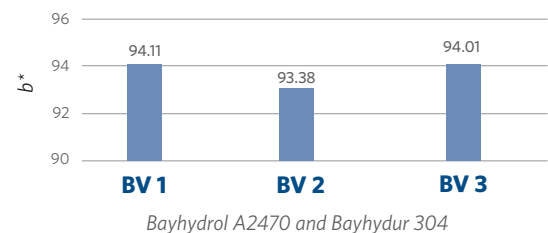


Low and Flowable Viscosity

Initial Viscosity [cps]



2K PU WB Varnish, 3% pigment in letdown



Formulation for high pigment loading on reverse side →

Low Dispersant Dosage & Very High Pigment Loading

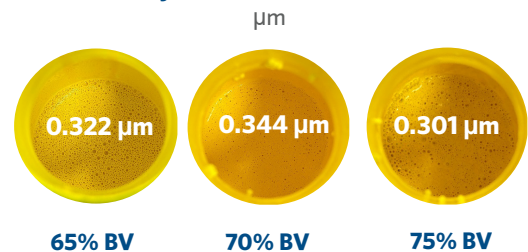
with **Borchi[®] Gen 1757** Dispersant & **AL-52272** Bismuth Vanadate Pigment

Bismuth Vanadate (BV) Grind Formulation

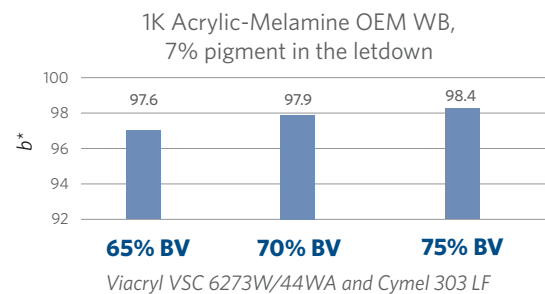
	Material	Supplier	STANDARD PIGMENT LOADING		
			65% BV	70% BV	75% BV
Borchi[®] Gen 1757 (100%)	Dispersant	Milliken	3.25	3.50	3.75
Borchi [®] Gen PN	Rheology Modifier	Milliken	0.50	0.50	0.50
Borchers [®] AF 1171	Defoamer	Milliken	0.50	0.50	0.50
Deionized Water	Solvent	—	30.75	25.50	20.25
AL-52272	Bismuth Vanadate (PY 184)	Alfarben	65.00	70.00	75.00
TOTAL			100.00	100.00	100.00
DOP			5%	5%	5%

Media: Glass beads | Media size: 2 mm | Media amount: 150 g | Time: 1h in Lau shaker

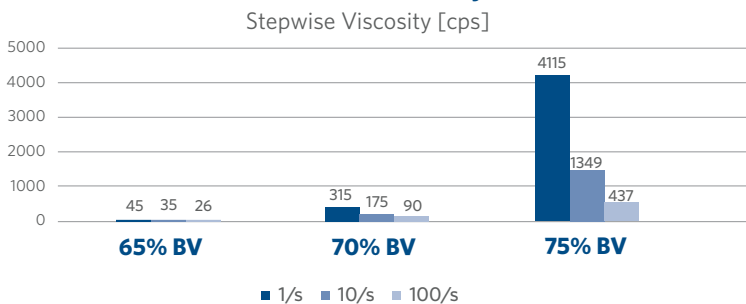
Very Small Particle Sizes



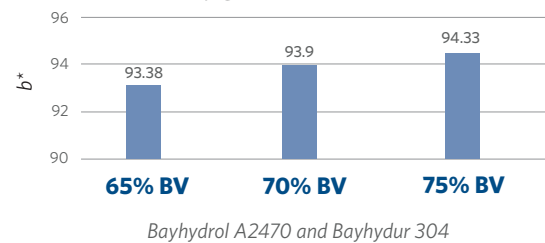
High b* Values



Flowable Viscosity



2K PU Varnish WB, 3% pigment in the letdown



For more information, please reach us at [borchers.com/contact](https://www.borchers.com/contact)

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing. Borchi is a trademark of Borchers Americas.

BORBYYH-022025

Milliken[™]