

Improved Dispersions for Bismuth Vanadate

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



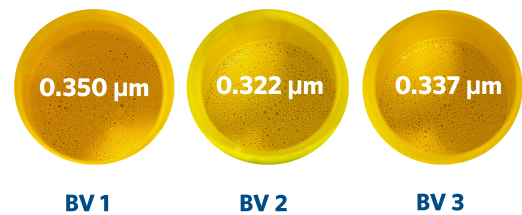
Low and flowable viscosity, very small particle size, great color development

Grind Formulations with Various Bismuth Vanadate (BV) Grades

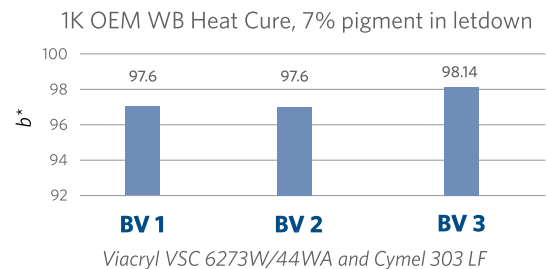
	Material	Supplier	BV 1	BV 2	BV 3
Borchi[®] Gen 1757 (100%)	Dispersant	Milliken	6.50	6.50	6.50
Borchi [®] Gen PN	Rheology Modifier	Milliken	0.50	0.50	0.50
Borchers [®] AF 1171	Defoamer	Milliken	0.50	0.50	0.50
Deionized Water	Solvent	—	27.50	27.50	27.50
Pigment (BV 1)	Bismuth Vanadate (PY 184)	—	65.00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

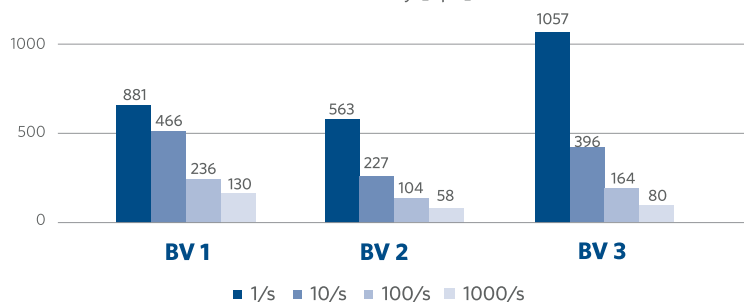


High b* Values

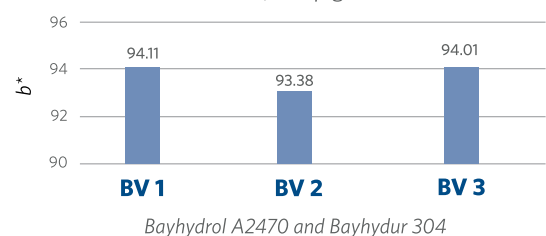


Low and Flowable Viscosity

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

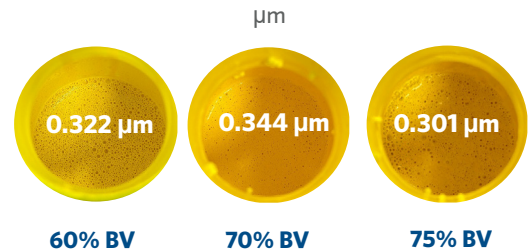
with **Borchi[®] Gen 1757** Dispersant & **AL-52272** Bismuth Vanadate Pigment

Bismuth Vanadate (BV) Grind Formulation

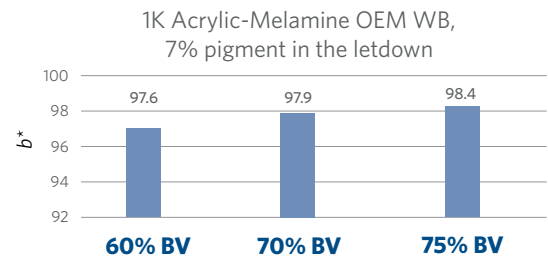
	Material	Supplier	60% BV	70% BV	75% BV
Borchi[®] Gen 1757 (100%)	Dispersant	Milliken	3.25	3.50	3.75
Borchi [®] Gen PN	Rheology Modifier	Milliken	0.50	0.50	0.50
Borchers [®] AF 1171	Defoamer	Milliken	0.50	0.50	0.50
Deionized Water	Solvent	—	30.75	25.50	20.25
AL-52272	Bismuth Vanadate (PY 184)	Alfarben	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



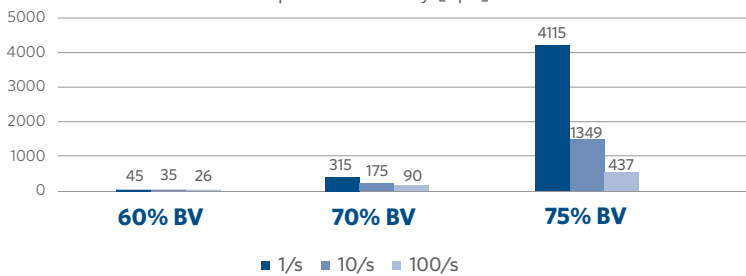
High b* Values



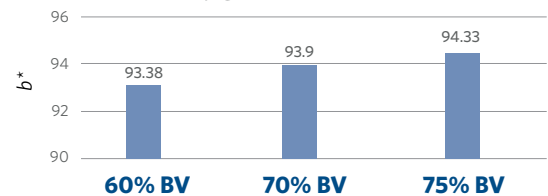
Viacryl VSC 6273W/44WA and Cymel 303 LF

Flowable Viscosity

Stepwise Viscosity [cps]



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



Bayhydrol A2470 and Bayhydur 304



For more information, please reach us at borchers.com/contact

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