

Excellent Dispersions *without* Losing Pot Life in Polyaspartic Coatings

with **Borchi® Gen 0451** dispersant

White and gray formulations for flooring applications



Better working time with a faster cure speed in floor coatings

White Polyaspartic Floor Coating

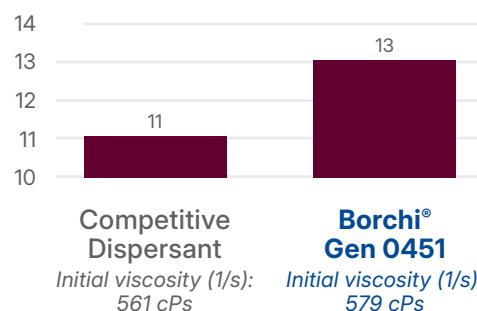
Material	Function	Supplier	% by weight	
			Competitive Dispersant	Borchi® Gen 0451
Grind				
Desmophen® CQ NH 1420	NH- Reactive Resin	Covestro	5.33	5.33
Desmophen® NH 1520	NH- Reactive Resin	Covestro	17.66	17.66
Desmophen® NH 1720	Reactive Diluent	Covestro	10.82	10.82
Competitive Dispersant	Dispersant	Competitor	1.54	-
Borchi® Gen 0451	Solvent Free Dispersant	Milliken	-	0.8
Mix at 800 RPM for five minutes				
Ti-Pure™ R-960	TiO ₂ Pigment	Chemours	38.48	38.48
Mix at 4000 RPM for 15 minutes; Achieve Hegman grind = 6.5				
Thindown				
t – Butyl Acetate (reagent grade)	Solvent	VWR	2.20	2.94
Proceed when batch is below 100°F				
Additive OF	Moisture Scavenger	Milliken	2.37	2.37
Mix at 2500 RPM for 10 minutes				
Desmodur® Ultra N 3900	Isocyanate	Covestro	21.60	21.60
Total			100	100

Solids: 94.69% Volume Solids: ~95% PVC: ~15%

DOP: 2.08% NCO:NH: 1.03 VOC: ~76 g/L

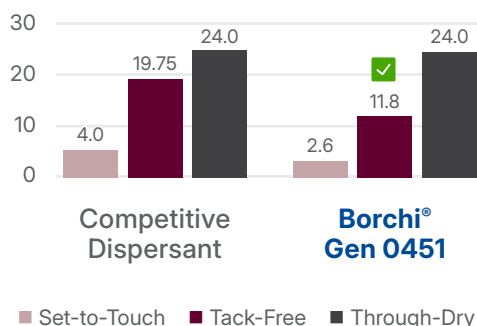
Comparable Working Time with Stable Viscosity

Time to Double Viscosity (minutes)



40% Faster Tack-Free Dry Times

Dry Time (hours), 12 mils wet film



Gray co-grind formulation on the back →

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Minimized flocculation in floor coatings

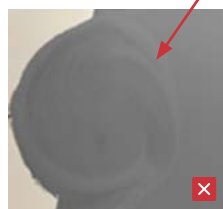
Gray Co-Grind Polyaspartic Floor Coating

Material	Function	Supplier	% by weight	
			Competitive Dispersant	Borchi® Gen 0451
Desmophen® CQ NH 1420	NH- Reactive Resin	Covestro	5.25	5.25
Desmophen® NH 1520	NH- Reactive Resin	Covestro	17.4	17.4
Desmophen® NH 1720	Reactive Diluent	Covestro	10.66	10.66
Competitive Dispersant	Dispersant	Competitor	2.41	-
Borchi® Gen 0451	Solvent Free Dispersant	Milliken	-	1.25
Ti-Pure™ R-960	TiO ₂ Pigment	Chemours	37.92	37.92
Printex® 300	Carbon Black	Orion	0.99	0.99
t – Butyl Acetate (reagent grade)	Solvent	VWR	1.75	2.90
Additive OF	Moisture Scavenger	Milliken	2.33	2.33
Two hours on Lau Shaker with 0.6-0.8 mm Zr Beads; Hegman Grind = 6				
Desmodur® Ultra N 3900	Isocyanate	Covestro	21.29	21.29
Total			100	100

**Solids: 94.77% Volume Solids: ~95% PVC: ~15.6% DOP for White: 2%
DOP for Black: 50% Total DOP: 3.2% NCO:NH: 1.03 VOC: ~76 g/L**

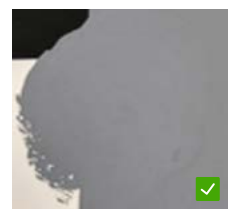
Reduced Pigment Flocculation

Significant white flocculation on edges



Competitive Dispersant

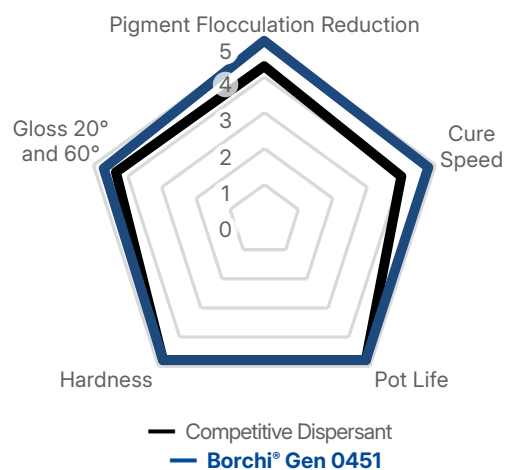
No white flocculation



Borchi® Gen 0451

Overall Performance

0=poor, 5=excellent



Please visit borchers.com to **request a sample**

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