

Enhanced Blocking Resistance in Architectural Coatings

with **Borchi® Gol 1375** flow and leveling agent



100% Acrylic White Semi-Gloss Formulation

Waterborne Acrylic Formulation with Borchi® Gol 1375

Material	Function	Supplier	% by weight
PRETHIN			
Rhoplex 101C	Acrylic Emulsion	DOW	60.10
GRIND			
Water	-	-	7.98
Sodium Nitrite	Corrosion Inhibitor	Millipore Sigma	0.04
<i>mix at 1000 RPM for 5 min</i>			
Attapulgite clay	Thickener	-	0.31
<i>mix at 1000 RPM for 5 min</i>			
Tamol 731A	Dispersant	DOW	0.51
Surfynol 104 DPM	Surfactant	Evonik	0.15
Preventol BIT 20 N	Biocide	Lanxess	0.10
Borchi® Burst DFS 500	Defoamer	Milliken	0.25
Tetrapotassium pyrophosphate	Surfactant	Millipore Sigma	0.05
Ti-Pure™ R-706	Titanium Dioxide	Chemours™	23.43
Minex 7	Functional Filler	Sibelco	2.04
<i>mix at 3000 RPM for 15 min</i>			
Texanol	Coalescent	Eastman	0.61
<i>mix at 3000 RPM for 10 min</i>			
LETDOWN			
Water	-	-	1.70
28% Aqueous Ammonia	-	-	0.19
Borchi® Gel 0434	Thickener	Milliken	1.40
Borchi® Gol 1375	Flow & Leveling	Milliken	1.14
<i>mix at 2500 RPM for 10 min</i>			
Total			100.00

NVM	57.36%	VOC	20.39 g/L
NVV	44.09%	PVC	19.74%
DOP	0.49%	HAP	0.00 g/L

Competitive additive screening in the formulation:

Competitor A:

Non-fluorinated surfactant mixture;
2% as supplied

Competitor B:

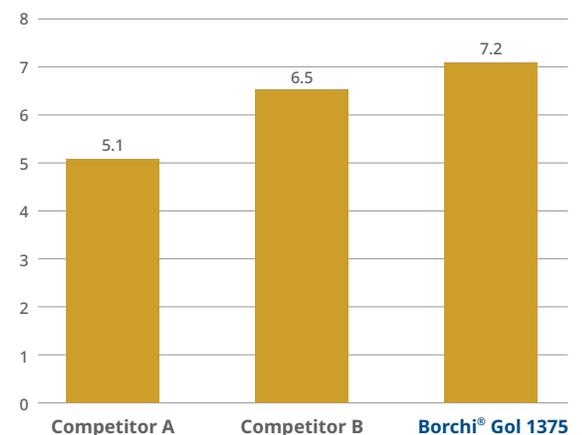
Silicone-containing surface additive;
1% as supplied

Borchi® Gol 1375:

Silicone-free substrate wetting agent;
1.14% as supplied

Elevated Temperature Block Resistance Compared to Competitive Additives

ASTM D4946 blocking
average score, 4 hour dry, 30 mins/120°F



Additional performance benefits on the back →

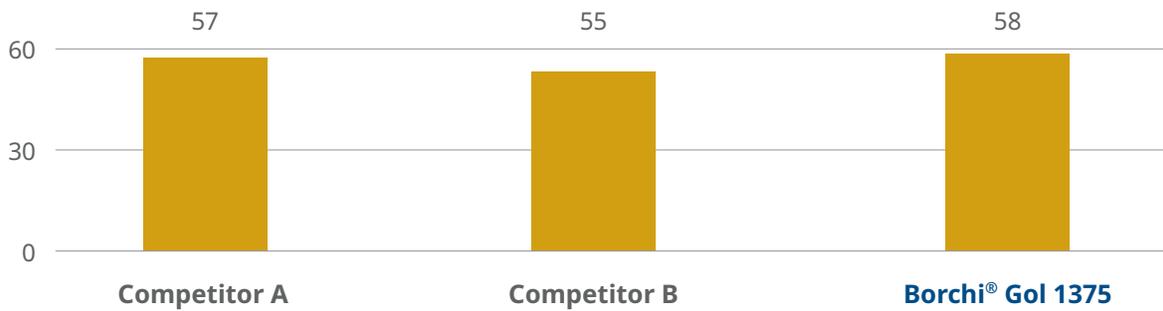
Excellent Gloss & Stain Resistance in an Acrylic White Semi-Gloss Formulation

with **Borchi® Gol 1375** flow and leveling agent

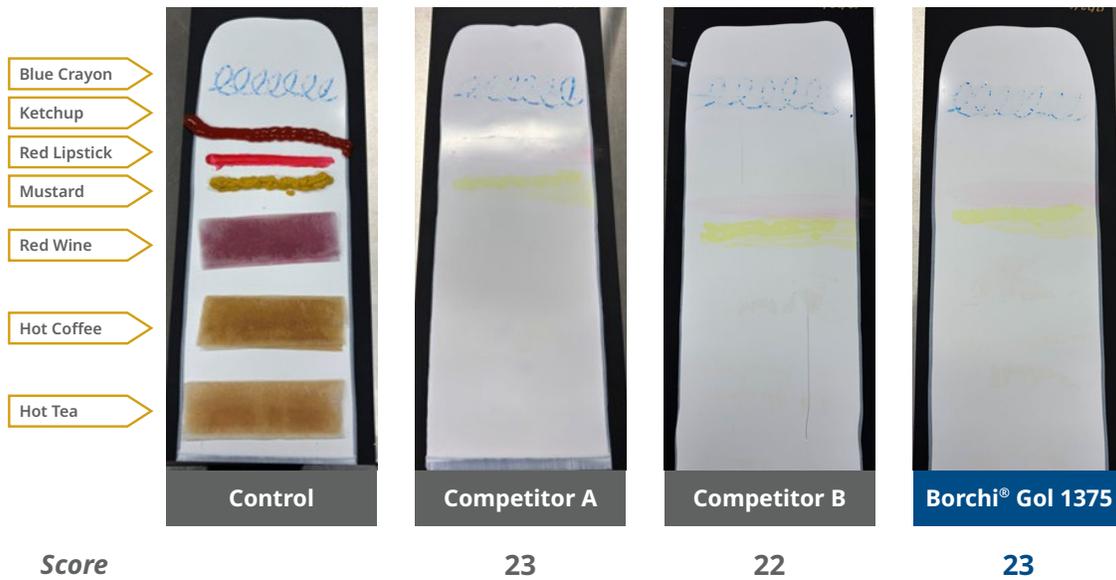


Improved Gloss

60° (average score)



No Negative Impact on Stain Resistance



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

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