

Higher Pigment Loading and Improved Viscosity Stability in TiO₂ Formulations

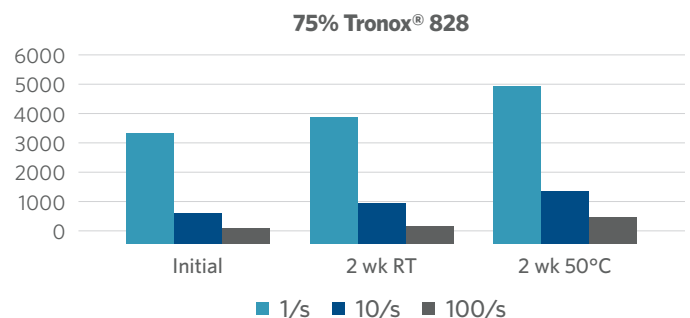
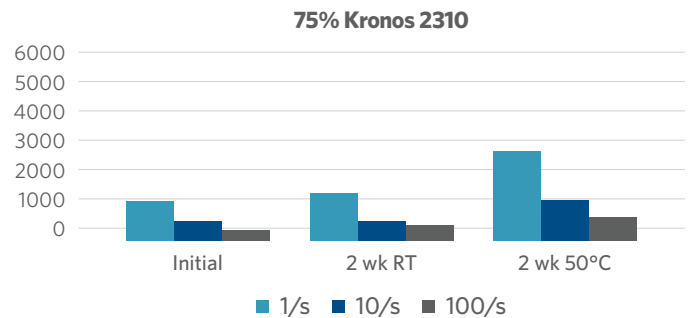
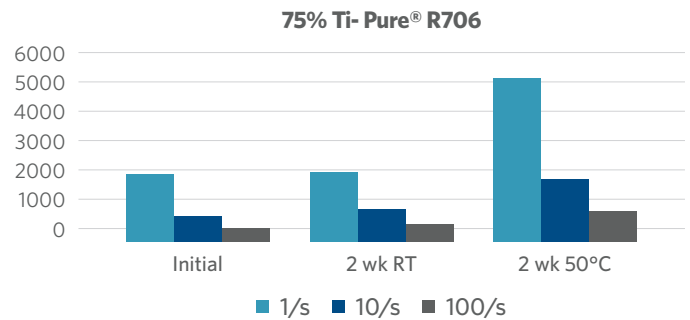
Borchi® Gen 1252 Dispersant • **Borchi® Gel PN** Rheology Modifier

- No settling and improved viscosity variance over time after extended heat age stability
- No change in gloss or contrast ratio
- High opacity
- Strong tint strength

75% TiO₂ Formulation

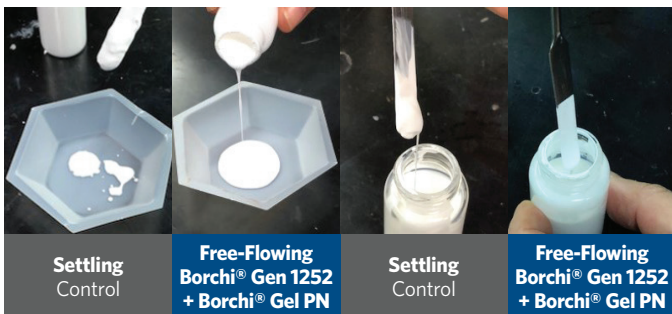
Product	Material	wt %
Water	Solvent	21.88
Borchi® Gen 1252 (100%)	Dispersant	2.25
AMP 95	Neutralizer	0.12
Borchers® AF 1171	Defoamer	0.25
Borchi® Gel PN	Rheology Modifier	0.50
TiO ₂	Pigment	75.00
Total		100.00
AOP		3.00

Excellent Viscosity Stability with Borchi® Gen 1252 and Borchi® Gel PN 75% TiO₂ Concentration



Free-Flowing Formulation

2-Week, 50° C Stability Test



Settling Control

Free-Flowing
Borchi® Gen 1252
+ Borchi® Gel PN

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75% TiO₂ Formulation

	Fumed Silica	Borchi® Gel PN
TiO ₂	70.00	70.00
Borchi® Gen 1252 (100%)	3.50	2.10
AMP 95	0.15	0.10
Borchers® AF 1171	0.25	0.25
Borchi® Gel PN		0.50
Fumed Silica	0.30	
DI Water	25.80	27.50
Total	100.00	100.00
% DOP	5.00	3.00

Stable Gloss Values Over Time

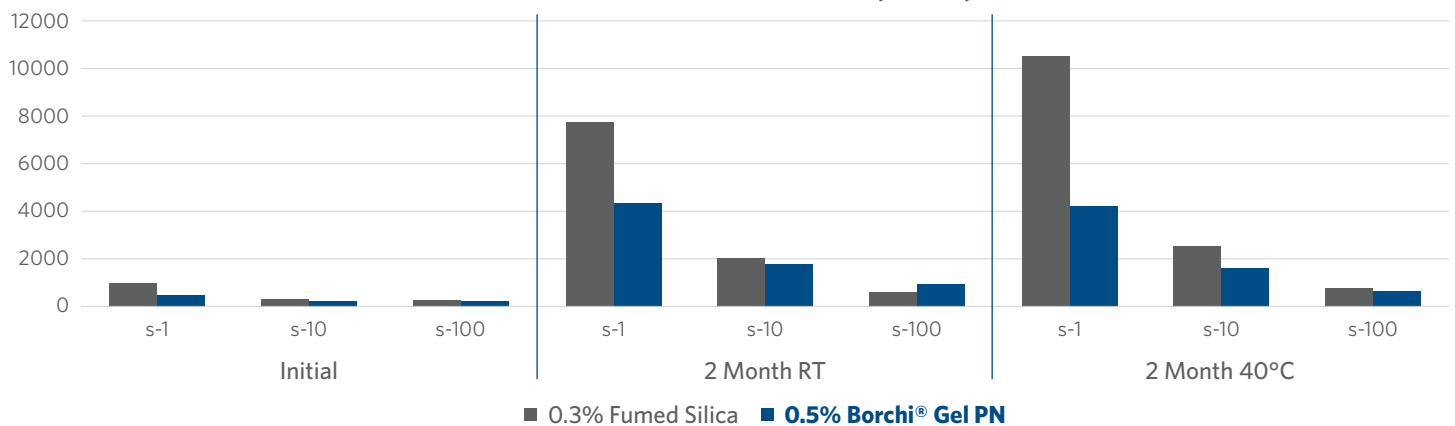
Exterior Flat (gloss clear 85° = 1.5)	1 week		2 months	
	5% DOP	3% DOP	5% DOP	3% DOP
	Fumed Silica	0.5% Borchi® Gel PN	Fumed Silica	0.5% Borchi® Gel PN
Contrast Ratio (L*B/L*W)	0.99	0.98	0.99	0.99
Gloss 85° Leneta	15	4	10	4

Alkyd Semi-Gloss (gloss clear 60° = 10)	1 week		2 months	
	5% DOP	3% DOP	5% DOP	3% DOP
	Fumed Silica	0.5% Borchi® Gel PN	Fumed Silica	0.5% Borchi® Gel PN
Contrast Ratio (L*B/L*W)	0.99	0.99	0.99	0.99
Gloss 60° Leneta	14	10	14	10

Disperse in the Lau for 1 hr, Concentrate to Glass Beads 1:1

Efficient Viscosity Stability

Borchi® Gel PN vs Fumed Silica Viscosity Stability σ (CP)



For more information, please reach us at 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.

BG1252-11.19.24

