

Waterborne Spray Coating for UV Curing and *Simplified* Rheology Modification

Borchi® Gel 0625 rheology modifier

Tin-free, APEO-free, and VOC-free HEUR thickener for mid shear ranges



- **FROM TWO TO ONE: fewer rheology modifiers needed for optimal performance**
- **No substance of concern identified under IKEA IOS-Mat-0066 & IOS-Mat-0010 (for Borchi® Gel 0625)***

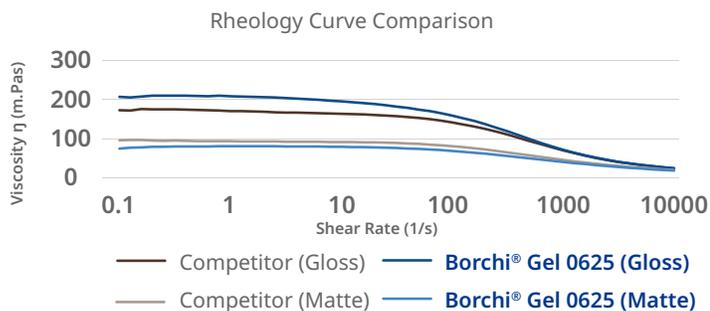
Material	Function	Supplier	Competitor <i>Two rheology modifiers</i>		Borchi® Gel 0625 <i>One rheology modifier</i>	
			Gloss	Matte	Gloss	Matte
Syntholux BW 2223	Waterborne-UV curing dispersion	Synthopol	86.2	85.2	86.2	86.2
Omnirad 1173	Liquid photo-initiator	IGM Resins	1.8	1.8	1.8	1.8
Borchi® Gel LA 50	Substrate wetting agent	Milliken	0.2	0.2	0.2	0.2
Borchi® Gel LA 200	Wetting and defoaming	Milliken	0.3	0.3	0.3	0.3
Ceridust 5551	Matting agent	Clariant	—	0.5	—	0.5
Syloid 7000	Scratch resistance and matting	W.R. Grace	—	1.0	—	1.0
Water	Carrier	—	10.7	10.2	10.7	10.2
Competitor 1	Mid shear rheology modifier	—	0.5	0.5	—	—
Competitor 2	Mid shear rheology modifier	—	0.3	0.3	—	—
Borchi® Gel 0625*	Mid shear rheology modifier	Milliken	—	—	0.8	0.8
TOTAL			100.00	100.00	100.00	100.00

*As a coating ingredient, no substance of concern is identified in Borchi® Gel 0625 under IKEA IOS-Mat-0066 (Vers. AA-163938-11) and IKEA IOS-Mat-0010 (Vers. AA-10911-11)

Borchi® Gel 0625 formulation

pH-value	Settling behavior	Application of the sample		VOC content	Solids content	Gloss 60°	Matte 60°
7.5	None observed	120µm Wet film on Glas 2x120g/m² spray with intermediate sanding on beech	10' RT, 15' 50°C, Hg-Lamp, 5 m/s	< 11.5g/L	38.8%	46	34

One Thickener, Similar Rheology Performance



Durability data on the back →

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No Impact on Stain Resistance (after 24 hours)

Borchi® Gel 0625 (Gloss)

Borchi® Gel 0625 (Matte)



Clear Gloss Finish

Borchi® Gel 0625 (Gloss)



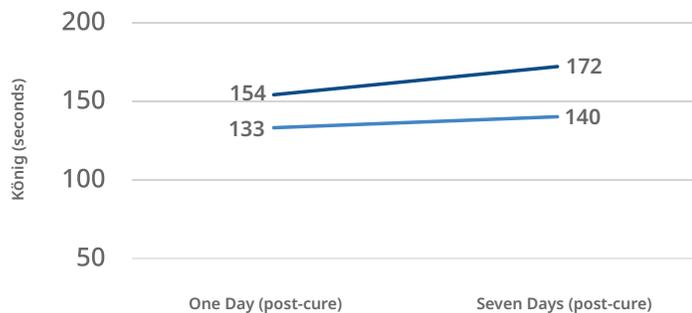
Stable Matte Finish

Borchi® Gel 0625 (Matte)



High Hardness Development

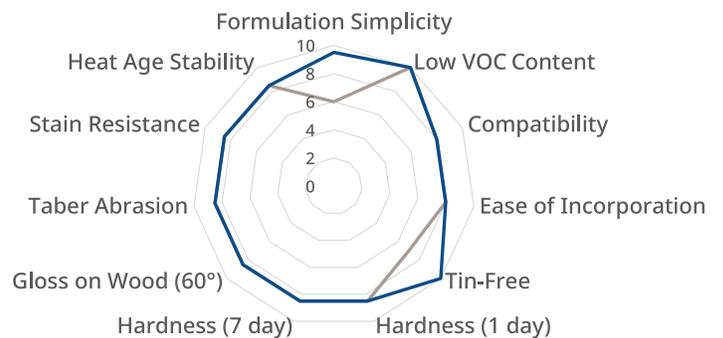
König Hardness



— Borchi® Gel 0625 (Gloss) — Borchi® Gel 0625 (Matte)

Overall Performance Benefits

0=poor, 10=excellent



— Competitor

— Borchi® Gel 0625



Please visit our website to **request a sample**

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.
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