

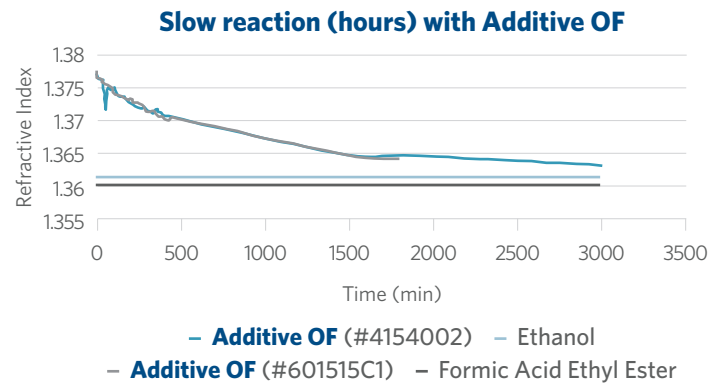
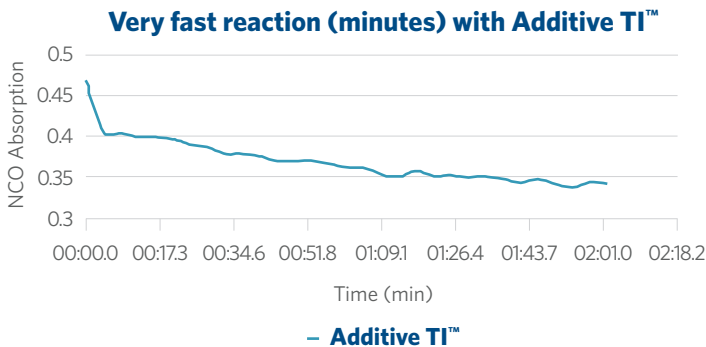
Moisture Scavengers for Reduced Surface Defects

Additive TI[™] • Additive OF

for Solventborne 1K and 2K Polyurethane Systems

Help prevent moisture-related issues such as gloss reduction, haze, and foam building

Product	Focus	Content	Dosage	Notes
Additive TI[™]	Short-term dehydration of raw materials	<ul style="list-style-type: none"> • 100% active • Transparent liquid • Low viscous • Highly reactive 	12 g additive is needed to react with 1 g water	<ul style="list-style-type: none"> • Add 50 - 100% more product to increase storage stability • Processing period of ≈24 hours • Do not add to the polyol component
Additive OF	Package stabilizer for long-term dehydration	<ul style="list-style-type: none"> • 100% active • Transparent liquid • Low viscous 	9 g additive is needed to react with 1 g water	<ul style="list-style-type: none"> • 0.5 - 1.0% recommended for storage stability • Can add directly to the polyol or isocyanate component



Reduced moisture in storage and final application



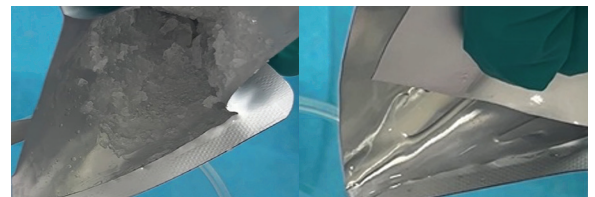
Without Additive TI[™] Additive TI[™]



Without Additive TI[™] Additive TI[™]

Gassing test in isocyanate component (0.4% water) stored at 23°C for 1 month

Improved long-term stability



Without Additive OF Additive OF

Isocyanate hardener component (0.4% water) stored at 23°C for 4 months

Formulate with these additives together →

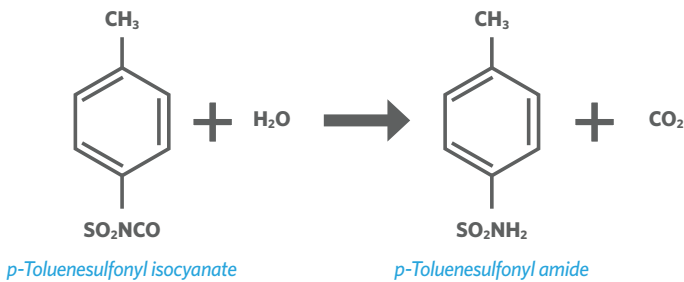
Use Moisture Scavengers *Together* for Optimal Results

Additive TI[™] + Additive OF

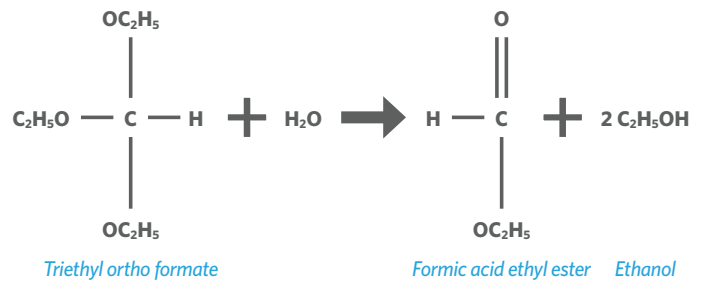
for Solventborne 1K and 2K Polyurethane Systems

For best surface appearance, add as little water as possible to your formulations

Chemical reaction of Additive TI[™] with water *(do not add to the polyol component)*



Chemical reaction of Additive OF with water *(fast evaporating solvent, reduced viscosity, improved wetting, OH functional)*



Semi-gloss 1K polyurethane parquet clear coat

Raw Material	Material	Supplier	% by wt.
Vynlite VROH, 10% in butyl acetate	Vinyl resin	DOW	9.0
Methoxy propyl acetate	Solvent	-	20.0
Acematt TS 100	Silica	Evonik	1.3
Ceraflour 950	Matting additive	BYK	1.4
Borchi [®] Gol LA 200	Deaerator	Milliken	0.2
Borchi [®] Gol OL 17 LC, 10% in butyl acetate	Flow and leveling agent		0.2
Additive TI[™]	Moisture scavenger		2.3
Desmodur E 1660	Aromatic polyisocyanate prepolymer	Covestro	51.0
Desmodur E 1361			12.3
Additive OF	Moisture scavenger	Milliken	2.3
Total			100.0

Solids Content	approx. 42%	
Binder Content	approx. 40%	
Flow time, DIN 53211-cup 4 mm, at 23°C	approx. 40s	
Drying	Dust free:	approx. 30min
	Tack Free:	approx. 60min
Pendulum Hardness, DIN EN ISO 1522 after 1 day	approx. 120s	

Homogenize const. 1-6, stir in const. 7, then stir slowly further for 30 min. After maturing for one day, stir in slowly const. 8-10 and homogenize



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

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