

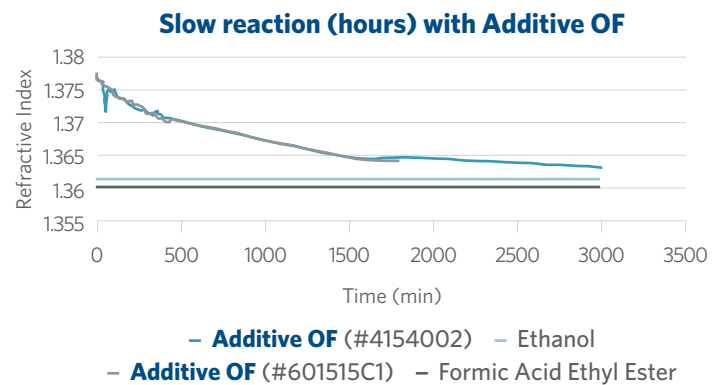
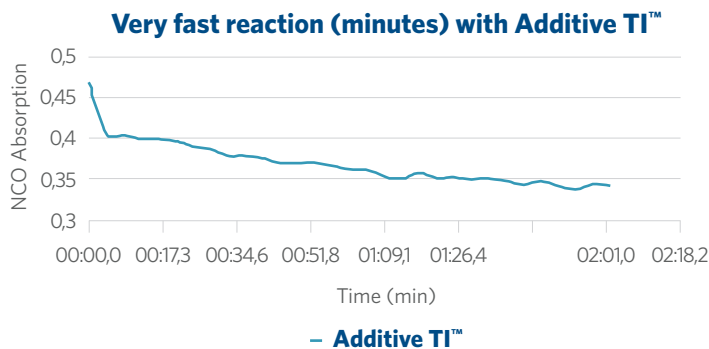
Moisture Scavengers for Reduced Surface Defects

Additive TI[™] • Additive OF

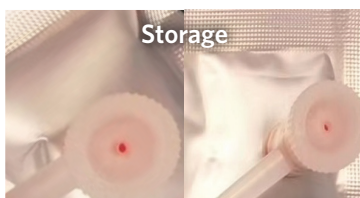
for Solventborne 1K and 2K Polyurethane Systems

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



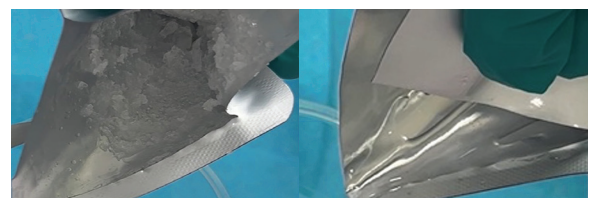
Without Additive TI[™] **Additive TI[™]**



Without Additive TI[™] **Additive TI[™]**

Gassing test in isocyanate component (2.4% 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 →

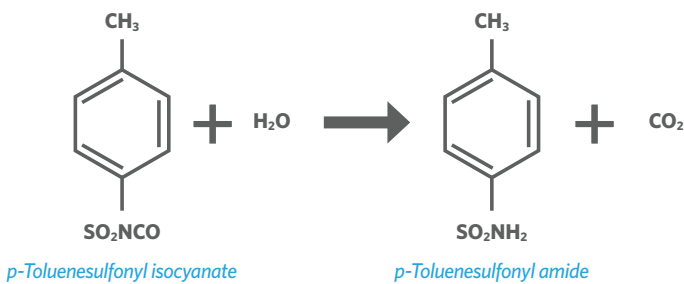
Use Moisture Scavengers *Together* for Optimal Results

Additive TI[™] + Additive OF

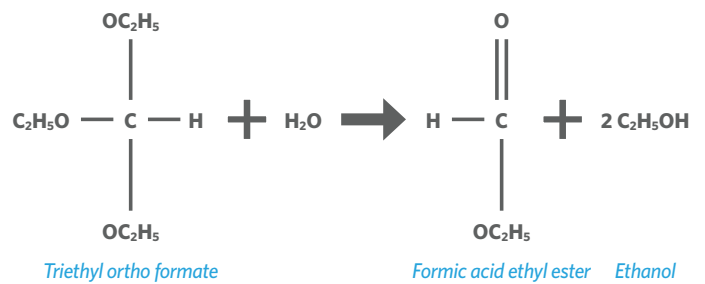
for Solventborne 1K and 2K Polyurethane Systems

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 | | 0.2 |
| Borchi [®] Gol OL 17 LC, 10% in butyl acetate | Flow and leveling agent | Milliken | 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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