



**Unconventional Solutions, Inc.**  
Partnering with Your Industry to Repair - Protect - Upgrade

# Leading Edge

## Moisture Barrier Decorative Floor System - Floor Coating Coefficient of Friction Testing

### Avoid OSHA #1 reportable, "Trip, slips and falls."

According to the National Safety Council, slips, trips, and falls remain one of the leading causes for work related injuries in the United States.

The slip resistance of floors and pavements is the measure of the ability of a surface to prevent accidental slipping by pedestrians in dry or wet conditions. Inspectors, especially those who perform commercial inspections, can benefit from learning about the details of slip resistance, especially when the lack of it presents a serious safety hazard.

Slip resistance is important because it prevents against slip-and-fall accidents, which cause needless physical and emotional trauma -- as well as financial hardship through medical expenses and lost work -- to the injured person. The party found legally responsible -- typically, the property owner -- may face stiff liability payouts, legal defense costs, insurance premium hikes, increased administrative costs, and a damaged reputation within the community. All told, these accidents and their resulting lawsuits cost all parties enormous sums of money and inconvenience, and they're common, too; according to the Occupational Safety and Health Administration (OSHA), they constitute the **majority of general industry accidents and cause 15% of all accidental deaths**. For these reasons, inspectors and their clients can benefit from learning the basics of slip-resistant flooring.

Critical to understanding slip resistance is a metric used to gauge the slipperiness of the floors in a building: the **coefficient of friction (COF)** represents the resistance

to movement between two objects -- in this case, a human foot and a flooring material. Sophisticated devices, such as the **BOT-3000E Tribometer**. The Tribometer measures **coefficient of friction** (COF) by dividing the measured horizontal resistance to the vertical, downward force. High COFs indicate greater friction and less slipping and conforms to ANSI and ASTM standards.

Inspectors can inform their clients about how to avoid the personal and financial fallout that result from slip-and-fall accidents through the following corrective measures such as:

- **Abrasive treatments, finishes and coatings:**

Rough finishes made from epoxy, urethane and paint may be applied to impart slip resistance to floor and stair applications. Silicon carbide and aluminum oxide are more durable grits, while garnets and sand are less durable to contaminants and high traffic.

- **Chemical etching:** Common in bath and shower areas, hydrofluoric acid is used to create ridges and valleys to increase surface roughness on marble, granite, concrete, and ceramic and porcelain floors. This etching may be lost if the floors are not frequently cleaned.

#### RECOMMENDED PRODUCTS:

**USI Flexible Broadcast Primer**  
**USI High Build Epoxy (HB)**  
**USI White Aluminum Oxide (non-slip)**  
**USI Fast Cure Line Striping**  
**USI UV Resistant Epoxy Clear Topcoat**

**Contact Unconventional Solutions at  
248-735-7000 for your FREE site visit today!**



**Keeping You in the Know Since 2002**

# USI Dates to Remember

**November 16**

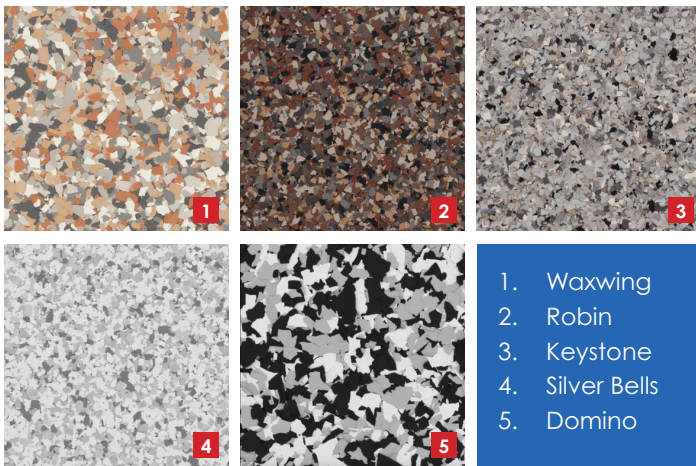
**SEMPPE Meeting at Whiskey's on the Water**  
(Wyandotte, MI)

**November 23/24 - Gobble! Thanksgiving**  
(USI Warehouses closed for the holidays)

## PRODUCT HIGHLIGHT

### POLYMER FLAKE FOR EPOXY FLOORING SYSTEMS

**Polymer Flake** can be used with any of our epoxy flooring systems to add customization and style to your floor.



**Call us @ 248.735.7000 for a FREE demonstration.**

<https://www.usigroups.com/product/torginol-polymer-flake-for-epoxy-flooring-systems/>

## PRODUCT HIGHLIGHT

### USI SF Polyaspartic Sealer

#### 2-Part Sealer

Notes: Clear coat, but pigment packs are available



**USI SF Polyaspartic Sealer** is a two component 95% solids polyaspartic aliphatic polyaspartic sealer. This material can be used as the basecoat and the topcoat over **paint chip decorative broadcasts** or **colored sand broadcasts** to provide an infinite array of color schemes or patterns..

#### PRODUCT FEATURES

- Excellent Chemical Resistance
- Excellent Hardness
- Excellent Abrasion Resistance
- UV Stability
- Pot Life > 2 hours
- Tack Free (Dry to Touch) 3 – 7 hours
- Recoat or Topcoat 5 – 8 hours
- Light Foot Traffic 6 – 8 hours
- Full Cure (Heavy Traffic) 24 – 72 hours.

**Call us @ 248.735.7000 for a FREE demonstration.**

<https://www.usigroups.com/product/usf-lvp-high-build-quick-set-epoxy-1-5-gallon/>



USI SF Polyaspartic Sealer

## NOW AVAILABLE PURCHASE ORDER (PO) for online orders

Call us at 248.735.7000 or email Customer Service at [cs@usigroups.com](mailto:cs@usigroups.com) to set up an online account.



**Contact the USI team today! We have an Unconventional Solution for YOU!**

### The USI Team offers:

Technical Support • Training • Troubleshooting  
HOTSHOT & Same Day Local Deliveries available for orders placed by 12 p.m. EASTERN TIME

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**Fast, Friendly Service & Shipping**

