

Surfacing Technology

Technical documentation

ST Finish Line

Description:

ST Finish Line is a fast drying, single component, Polyurea top coat. ST Finish Line is an aliphatic UV stable coating with a high solids gloss finish, and is available in a variety of colors.

Finish Line is the best alternative to Epoxy, Polyaspartics, Acrylic, and Urethane Systems. Single component, Industrial / Maintenance coating.

ST Finish Line can be applied as a seal coat to newly resurfaced concrete material after the resurface material has been textured, finished, and allowed to dry. Thoroughly clean the surface to be sealed. Leave no loose material. Sweep or use construction blowers to remove any material that may impair bond.

Surface Preparation:

Proper substrate surface preparation is critical to the success of the project. The substrate must be sound and free of any contaminants that would interfere with adhesion. Cracks and delaminated areas must be addressed with the Surfacing Technology Crack Repair System. The substrate must exhibit a slight profile similar to medium sandpaper. Additional, saw cut, control joints may be needed to control "moving" cracks.

Dry grinding is highly recommended. If surface moisture is questionable, test for moisture vapor drive before coating.

Additional SSPC surface preparation guidelines are available on the internet at surfacingtechnology.com

Mixing:

Clear ST Finish Line is delivered in 4 gallons per container. As an option, 1 gallon of color pigment can be added. Mix in a clean 5 gallon plastic pail. Mix any material prior to use with a low speed mixing paddle. Keep container tightly closed when not in use to avoid contamination. Material will skin in the bucket if not used within a timely manor.

- **ASTM D 4259** Abrading Concrete
- **ASTM D 4260** Acid Etching Concrete
- **ACI 201.1R** Guide for Making a Condition Survey of Concrete in Service
- **ACI 201.3R** Guide for Making a Condition Survey of Concrete in Service
- **ACI 546.3R-06** Guide for the Selection of Materials for the Repair of Concrete

Physical Properties:

V.O.C. Content	295 g/l
Shelf Life	6 months
Re-coat time	2-12 hours
Foot Traffic	10 hours
Wheel Traffic	4-7 days
Total Solid Content	71%
Elongation	25%
Tensile (psi)	5500
Color Stability	Excellent 100% aliphatic
Tear	800 lbs/in
Hardness	75 D
Permeability	0.053 WVT
Burn Rate ASTM D635	1.52 cm/min (typical)

**Chemical Resistance ASTM D543
(24 hour full immersion)**

Sulfuric Acid 10%	E
Sulfuric Acid 30%	F
Citric Acid 1%	E
Isopropyl Alcohol 99%	P
Aviation Fuel	G
Diesel Fuel	E
Gasoline	E
Ammonia	E
Sodium Hydroxide	E
Sodium Hypo Chlorite 5%	E
Lactic Acid	F
Tire	E
Brake Fluid	P
Sulfuric Acid (Battery Acid)	G

Rating
E = No Effect
G = Limited Effect
F = Moderate Effect
P = Unsatisfactory

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Application:

ST Finish Line can be applied using a 1/2" Nap Mohair Roller, with a solvent resistant core. Use a high end roller for ultra smooth finish projects to alleviate roller hairs. High quality foam or adhesive rollers can also be used. ST Finish Line can also be applied using a 1/16" V-notch squeegee and then back rolled. ST Finish Line may also be applied using an air-less sprayer. Consult your Surfacing Technology representative for process guidelines. Re-coat time is 2-12 hours. Using the ST Accelerant can reduce the re-coat time.

Keep lid tightly on bucket when material is not in use.

Accelerant Material:

Use 3 ounces of Accelerant per 1 gallon of ST Finish Line. Mix thoroughly.

Abrasion Resistance ASTM 4060-90:

Taber Abrader CS-17 Wheel 12.0 mg loss
1000 gm / 500 cycles

Coverage Rates:

(Estimate) Subject to substrate condition
5 Mills = 225-250 square feet per gallon
10 Mills = 112 - 125 square feet per gallon

Food Contact:

USDA / FDA Approval acceptable for use in floors subject to USDA / FDA inspections and regulations. USDA prohibits the use of any chemicals where existing food or food packaging can become contaminated.

Storage:

Store material in an interior cool, dry place. Shelf life is 12 months in original, unopened container. Containers should be tightly closed and properly stored. Prevent accumulation of water, dirt, and other residue on covers.

Precaution:

KEEP OUT OF REACH OF CHILDREN. The solvent product is combustible. Keep away from excessive heat and open flame. Do not apply when surface or atmospheric temperatures are below 40°F or when measurable precipitation or freezing is possible within 4 hours.

Clean-up:

Clean tools and equipment with warm, soapy water. After material has dried, it may be necessary to use solvents such as mineral spirits, toluene, or xylene. Discard used rollers and brushes in an appropriate manor in accordance with local laws.

Caution:

Avoid contact with skin. Protective clothing is recommended. Contact areas should be thoroughly washed with warm soapy water. Avoid contact with eyes. Protective goggles are recommended in case of splashing. Flush eyes with water if contact occurs. Avoid ingestion of material. If ingestion occurs, contact a poison control center or a physician.

Technical Support:

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