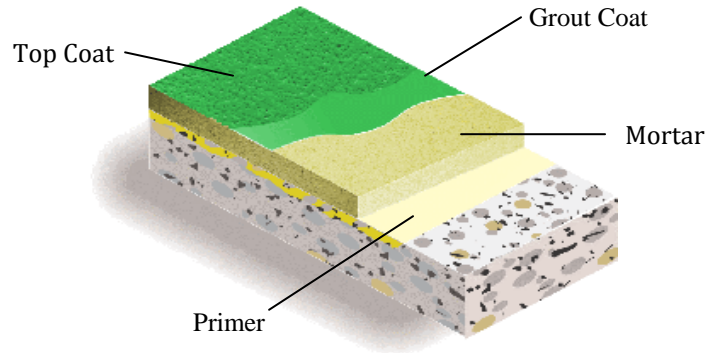


# HSS ITM

(Industrial Troweled Mortar Flooring System)

## System Data Sheet



Horizon Surface Systems ITM is a Troweled epoxy mortar system installed at 1/8" to 3/8" which incorporates selected aggregates and high solids chemical resistant binder resins to create a durable High impact heavy duty protective coating

### Advantages

- Meets USDA, FDA and OSHA Requirements
- Superior Chemical Resistance
- High Temperature Resistance
- Continuous @ 200°
- Intermittent @ 300°
- UV Stable Top Coat
- Non Slip Finish (wet areas)
- Resistant to Algae, Fungi & Mold

### USES

- Manufacturing Areas
- Restrooms and Locker rooms
- Pharmaceutical and Laboratories
- Animal Care Facilities
- Packaging and Storage areas
- High Impact Areas
- Forklift Traffic Areas
- Service areas

### Application Information

	Material	Mix Ratio	Application Rate
Primer Coat:	HSS-BC	2:1	200 to 250 sf/gal
Mortar	HSS-BC W/Blended Agg.	2:1	60 to 100sf/1.5 gal 90 lbs. to 1.5 gal
Grout/Top Coat	HSS UVP	2:1	75 to 150 sf/gal
(Optional)Top Coat	HSS CRU	2:1	250 sf/gal

Color	10 Standard <u>Soild</u> Colors
Hardness @ 24 hours, Shore D ASTM D 224070/65	75-80
Compressive Strength ASTM C 579 ASTM D695	11,500 psi 15,500 psi
Tensile Strength ASTM C 307 ASTM D 638	2,000 psi 4,000 psi
Bond Strength	>400 psi
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	.15 gr
Flexural Strength ASTM C 580 ASTM D 790	5,000 psi 10,000 psi
Impact Resistance ASTM D-2794	>150 in./lbs.
Flammability ASTM D 635	Self-Extinguishing over concrete
Water Absorption ASTM D-570	0.2%
UV Stability ASTM D-1925	<15@2000hrs
Antimicrobial Resistance ASTM G 21	Passes

## **Installation**

All materials shall only be installed by qualified contractors. The following information is to be used as a guideline for the installation of the HSS ITM SYSTEM. Contact the Technical Service Department for assistance prior to application.

### **Surface Preparation – General**

Horizon Surface Systems ITM can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project.

### **Cleanup**

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

### **Safety**

Refer to the MSDS sheet before use. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

### **Material Storage**

Store materials in a temperature controlled environment (50°F - 90°F) and out of direct sunlight. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F -90°F.

### **Maintenance**

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

## **Surface Preparation – Concrete**

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to CSP3-5.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

### **Temperature**

Throughout the application process, substrate temperature should be 50°F - 90°F. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen off gassing. The material should not be applied in direct sunlight, if possible.

### **Disclaimer**

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Manufacturer. Such information and recommendations set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

### **Warranty**

The Manufacturer warrants our products to be free of manufacturing defects in accord with applicable standard quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by the manufacturer,

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE MANUFACTURER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

