



HSS DTM

(Decorative Troweled Mortar Flooring System)

System Data Sheet

Horizon Surface Systems DTM is a Troweled 3/16" to 1/4" decorative mortar system which incorporates selected aggregates and high solids chemical resistant binder resins to create a durable Medium impact decorative coating system.

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-PT W/Blended Agg.	4:1	50sf/1.5 gal 74 lbs. to 1.25 gal
Slurry Coat	HSS UVT	2:1	100 sf/gal
Broadcast Agregate	Blended Ceramic Quarts		To excess
Grout Coat	HSS UVT	2:1	150 sf/gal
Seal Coat	HSS CRU	2:1	250 sf/gal

Color	10 Standard <u>Solid</u> Colors
Hardness @ 24 hours, Shore D ASTM D 224070/65	75-80
Compressive Strength ASTM C 579 ASTM D695	10,500 psi 15,500 psi
Tensile Strength ASTM C 307 ASTM D 638	1,800 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	4,000 psi 10,000 psi
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.

