

PRODUCT DESCRIPTION: Teradek HTM is a dry shake, colored metallic floor hardener with graded, non-oxidizing metallic aggregate in a high strength cementitious binder. Designed to be incorporated into fresh concrete slabs. Teradek HTM provides a dense, tough surface with six times abrasion resistance than plain cured cement concrete & it is capable of withstanding the abrasion and impact loading seen by floors slabs of with numerous industrial and manufacturing facilities. Teradek HTM has been specially formulated with a non-rusting aggregate for increased abrasion resistance in areas subject to frequent moisture or water exposure. Teradek HTM can also be mixed in a mortar consistency and placed along joints to provide shoulder reinforcement.

AREAS OF APPLICATION

- Industrial Floors
- Warehouses
- Processing Plants like fertilizer/Petrochemical units
- Vehicle maintenance shops
- Loading Docks
- Main, High Traffic Aisle ways/Gangways
- Machine Shops
- Breweries and Bottling Plants
- Joint Shoulders Reinforcement.

ADVANTAGE

- Provides a high strength wearing surface in areas subjected to constant or frequently wet conditions without oxidizing
- Metallic aggregate is free of rust, oil or other contaminants.
- Dense surface resists penetration of oil, grease, and many other liquids.
- Virtually non-dusting in service, easy to clean and maintain.
- Can be applied at coverage rates upto 14.6 kg/m²
- Available in 8 standard color.

APPLICATION

SURFACE PREPARATION

For the standard application techniques of a dry shake floor hardener, a pre-job meeting is suggested to review the project concrete mix design as well as placement and curing details unique to the particular job. Base concrete should have minimum cement level of 300 kg/m³ and slump @ 50 to 70 mm. It should be minimum 50 mm thick in case of manual finish & 100 mm thick in case of power trowel finish.

Layer Thickness: 7 kg/m² material give 2.5 to 3 mm thickness.

MIXING

Powder : Water

Teradek HTM: 38% to 40% by weight of powder.

Add water first into the bucket & scaling while stirring add powder till the mix is smooth & consistent.

ARMORED JOINTS

Teradek HTM may also be used as a mortar in constructing armored floor joints. These joints provide added wear resistance at joint edges increasing the serviceable life of the floor. Consult Fibrex Construction chemicals Pvt. Ltd. for recommended procedures and ratio of usage.

In addition to the information in " Application Instruction –

DRY SHAKE METHOD

Place concrete between screed points and strike off a level of finished floor. Use float to level surface, to remove excess water, drag surface with a sack. After the concrete has stiffened somewhat, open the surface by floating with hand wood or power float. For best results and uniformity of thickness, Teradek HTM should be applied in two shakes using approximately two-thirds of the total amount for the first shake. First Teradek HTM Shake: Immediately after the surface has been opened by floating, apply the first shake when the screed slab is free of surface water and has set to a degree that when a man stands on the slab he leaves footprints about 5 mm deep maximum. Allow the first shake to remain un-worked on the surface, until it has absorbed moisture and is of uniform color. Then float with hand wood or power float. The Second shake is applied at right angles to the first one, making application from the edges first. After the second shake has absorbed its moisture, float in the same manner as outlined above working the edges then cross floating for a level surface. Steel Troweling: When the surface has set sufficiently so that no additional water or fines are brought to the surface, steel troweling shall be done on the floor . During this operation the trowel should be slightly raised to give a hard and smooth finish. Leave troweling operation half, if broom finish is required.)

Colored DRY SHAKE METHOD

- Colored (pigmented) dry shakes require special attention for a uniform color. If the job involves placement of colored Teradek HTM, care should be taken with regards to the following

1. Delay application of the shakes as long as possible to get the maximum color saturation at the surface of the slab.
2. Apply the shake as evenly as possible and in two applications for maximum uniformity.
3. Best appearance is achieved by hand trowelling the final finish.

COVERAGE

Teradek HTM may be applied at rate 3.5 Kg/m² over green concrete for normal traffic & 6-12 kg/m² for heavy traffic.

Higher application rates yield better abrasion resistance. Greater application rates may be used with special considerations. Contact Fibrex Construction Chemicals Pvt. Ltd. representatives for recommended procedures.

CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

TECHNICAL SPECIFICATIONS

Water Absorption	6 to 6.5 %
Shelf Life	6 months
Lite traffic use	3 to 4 kg/m ²
Medium Traffic Use	4 to 5.0 kg/m ²
Heavy Traffic Use	6.0 to 12.0 kg/m ²
Abrasion Resistance(ASTM C 779): 28 days	0.23 to 0.3 mm @ 30 mins
Compressive Strength (IS516-1959):	71 ±2 MPa
Bulk Density	2.7 ± 0.1 kg/L at +27 °C

LIMITATIONS

- Do not apply Teradek HTM on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using Teradek HTM in those areas.
- Do not apply Teradek HTM to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- Do not apply Teradek HTM over treated expansion joints.
- In common with all cement colored material, some light shades may fade in the long term, when placed in adverse exposed conditions. Such changes (discoloration) if any, are normal and has no effect on the performance of Teradek HTM

Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based floor (interior)

COLOR RANGE

Teradek HTM is available in various attractive colours (See Teradek Stamp concrete shade card). Every effort is made in manufacturing to maintain consistency of colour, however exact colour can vary from one batch to other batch.

PACKAGING

Teradek HTM available in 25 kg bags.

STORAGE

Store the material at temperatures between + 10° C and + 45° C in originally sealed packages, the material can be stored for 6 months.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and busing, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of the product should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

DISCLAIMER:

Fibrex Construction Chemicals products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex Construction Chemicals wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

FIBREX OTHER PRODUCTS – WE DO

