

**PRODUCT DESCRIPTION:** Teradek HT is a quartz silica mixture of finely graded non-metallic aggregates, plasticizer, color powder and cement binder, preblended, dry shake hardener. It is a specialised concrete floor hardener, recommended for both interior and exterior use. It almost doubles the abrasion resistance of a plain, cured concrete & is particularly valuable due to its non-rusting characteristic. Teradek HT is suitable for frequently wet floors.

## AREAS OF APPLICATION

Teradek HT is used for floor surfaces that are subjected to light-to-heavy usage. Teradek HT is recommended wherever abrasion resistant or non-rusting floors are specified.

- Car Park Areas of Commercial and Public Buildings
- Food Processing and Electronic Industries
- Breweries
- Restaurants
- Dairy Farms
- Automobile Showrooms and Service Centers
- Warehouses
- Loading Docks and High Traffic Air Ways
- Cafes
- Night Clubs etc.

## ADVANTAGE

- Hardens concrete in one economical operation.
- Use of hard and properly graded aggregates increases the wear resistance over plain concrete floors.
- Can be used in conjunction with vacuum dewatered concrete at 3-4 kg/m<sup>2</sup> spread rate for normal traffic. For heavy traffic, use 5 to 6 kg/m<sup>2</sup>.
- Non-rusting property makes Teradek HT suitable for outdoors as well as indoors.
- Dispersing agent contained in Teradek HT allows it to be incorporated into the surface of low slump concrete resulting in exceptionally high surface strengths for maximum wear resistance.

## APPLICATION METHODOLOGY

### SURFACE PREPARATION

Surface for application of Teradek HT well designed, non-air entrained concrete mixes. Keep air content of the concrete below 3%. Minimum cement content per m<sup>3</sup> of concrete will be 300 kg and slump required is 50-70mm.

Sub-grade and Reinforcing:

- Special attention should be given to a well compacted and level sub-grade. A sub-grade that is not well compacted could cause cracking in the slab. Follow the specifications for use if reinforcing bars or welded wire mesh.
- Check the specifications for the amount of hardener required per square meter then stick the correct number of bags at each bay to be placed that day. This is important because it gives the finishers a "gauge" for applying the right amount of material.

## MIXING

Teradek HT requires no pre-blending and should be used directly from the bag.

## APPLYING AND LAYING

### 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 HT should be applied in two shakes using approximately two-thirds of the total amount for the first shake. First Teradek HT 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 colour. 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.)

**Note :** Colored (pigmented) dry shakes require special attention for a uniform color. If the job involves placement of Teradek HT, 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.

## 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

Appearance / Color	Color powder
Bulk Density	1.8 ± 0.1 kg/L at +27 °C
Compressive Strength (IS516-1959):	71 ±2 MPa
Abrasion Resistance (IS:1237-2012 )	0.47 mm average wear loss
Water Absorption	6 to 6.5 %
Coverage	
Lite traffic use	3 to 4 kg/m <sup>2</sup>
Medium Traffic Use	4 to 5.0 kg/m <sup>2</sup>
Heavy Traffic Use	6.0 to 12.0 kg/m <sup>2</sup>
Layer Thickness	2.5 to 3 mm/ 5kg/m <sup>2</sup>

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### LIMITATIONS

- Do not apply Teradek HT 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 HT in those areas.
- Do not apply Teradek HT to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially.
- Do not apply Teradek HT over treated expansion joints.

### 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)
- Floors with a pull off strength less than 1.5 N / mm<sup>2</sup>

### PACKAGING

Teradek HT is packaged in 25Kg.

### STORAGE

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

### COLOR RANGE

TERADEK HT 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.

### 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 using, 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, especially where the user has an allergic reaction. 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 any of the component products 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:

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## FIBREX OTHER PRODUCTS – WE DO

