ULTRA TC 50 – TDS

Product Name:
ULTRA TC 50
Product description:
Ultra TC 50 to provide a tough, hard wearing easily cleaned surface in industrial environments where a degree of higher resistance to chemical attack is required. It is suitable for use in workshops, production and processing areas, dairies, soft drinks and bottling plants, breweries, kitchens any floor areas subject to wet working and possible chemical spillage.
Advantages:
- Easy to use simple trowel application
- Anti fungal and Anti bacterial.
- Durability.
- Maximum number of colours.
- No joints continuous unbroken film.
- Available in mirror finish and mate finish.
- Chemical resistant.
- Easy to maintain.

Surface preparation:
It is essential that Ultra TC 50 is applied to sound, clean and dry surfaces to ensure maximum adhesion. Ultra TC 50 is designed for use as a high build 200 - 250 micron application per coat.
Note: Thin coatings will reflect the surface texture of the substrate and as such high spots may lead to premature wear of coating, thus surface preparation techniques should be chosen appropriately. The ideal substrate for application is a flat, lightly textured, clean concrete surface. A two coat application is recommended.
Substrate preparation:
The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., that will inhibit adhesion to the substrate. Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, preferably either by grinding or light contained shot blasting equipment or similar, and be vacuumed clean prior to applying Ultra TC 50. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

Note: Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. New concrete slabs must be allowed to cure for at least 6 weeks. High porosity substrates may be revealed after preparation and will be evident by their rapid suction and absorption. In these cases a priming coat of Ultra EP 11 Epoxy Primer is advisable before applying the Ultra TC 50. Dense, high porosity surfaces typically provided by rapid setting pumped screeds will require an appropriate primer. For all proprietary products used as substrates, please refer to the manufacturer's instructions for advice on priming.
Mixing:
The individual contents of the Ultra TC 50 should be thoroughly stirred before being mixed together. The entire contents of Part B should be poured into Part A and the two materials mixed thoroughly for at least 3 minutes using a heavy duty slow speed drill with spiral paddle. Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Mixing in this way will ensure product consistency and that any resin that remains in the containers after application will cure to provide for easier waste disposal.
Note: Once mixed, the Ultra TC 50 will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.
Coating:
Once mixed the Ultra TC 50 should be poured directly onto the floor and distributed without delay to the prepared surface using a brush or short/medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material does not occur. A second coat is applied as soon as the first coat has initially dried (typically 12 to 18 hours). This time will vary depending upon the condition of the surface and the ambient temperature. Provision for ventilation and air movement will be required. When using new rollers, ensure that all loose fibres are removed prior to use, any loose fibres released from the roller will cause unsightly blemishes in the finished coating.

Maintenance:
Good housekeeping and regular cleaning is essential in order to maintain the performance of Ultra TC 50. It is particularly important in areas that are subject to regular spillage. Spillages should not be allowed to dry, which results in higher concentrations of the materials, which may lead to early failure. Regular cleaning of the surface with a rotary scrubbing machine in conjunction with a water miscible cleaning agent or hot water washing at temperatures up to 50ºC is recommended.

Precautions:
The hardener is classified as corrosive and the epoxy resin can be irritating to the eyes and skin, and may cause sensitization by contact. They are considered harmful in contact with the skin and if swallowed. 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 by 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 to epoxide materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has 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.

Packing:

Part - A: 4.95 kg.

Part – B: 1.05 kg.

Limitations:
These products should not be applied at temperature less than 10°C or where the ambient relative humidity is greater than 85%. Note: The rate of wear of this coating will be increased in areas of concentrated foot and vehicle traffic, in particular, doorways, work benches, drinks dispenses etc. It is advisable in such areas to provide for additional coats product or specify a higher performance treatment. Once the mixed material has exceeded its pot life the viscosity and the characteristics of the product changes and any unused product should be discarded at this time.

Note: All **ULTRA GREEN** products are manufactured under strict Quality Assurance procedures, however, it is recommended where colour consistency is essential, wherever possible, products from one batch should be used.

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. For further information please refer to the Product Safety Data Sheet.

Storage:
Storage and shelf life of Ultra TC 50 has a shelf life of 12 months if kept in a dry, store between 5ºC and 30ºC in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

Technical Data:

Mixing	Two component
Pot life	30 min.
Coverage	15 – 20 m^2 per pack
Time between coats	8 – 24 hours
Foot traffic	24 hours
Complete cure	7 days
Thickness of two coats or more.	200 microns per coat

*Actual performance values obtained on site may vary from those quoted.

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