

## ULTRA TC 45 – TDS

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**Product Name:**

ULTRA TC 45

**Product description:**

Ultra TC 45 to provide an easily cleaned surface, with excellent adhesion to concrete and cement / sand screeds. Particularly suitable for floor applications in garages, warehouses, light industry and other areas subject to light vehicle and pedestrian traffic.

**Advantages:**

- Easy to use simple roller application
- Anti fungal and Anti bacterial.
- Food grade.
- Maximum number of colours.
- No joints continuous unbroken film.
- Mate finish and Durability.
- Chemical resistant can be used in sumps.
- Easy to maintain.

**Surface preparation:**

It is essential that ultra TC 45 is applied to sound, clean and dry surfaces to ensure maximum adhesion. Ultra TC 45 is designed for use as a thin coat application.

**NOTE:** Thin coatings will reflect the surface texture of the substrate and as such high spots may lead to premature wear of the coating, thus surface preparation techniques should be chosen appropriately. The ideal substrate for application is a flat, lightly textured, clean concrete surface.

**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 mechanically prepared, either by scrubbing, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying ultra TC 45. Over watered 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 the finished surface. New concrete slabs must be allowed to cure for at least 14 days.

**Mixing:**

The individual contents of ultra TC 45 should be thoroughly stirred before being mixed together. The entire content Part B container should be poured into the Part A container and the two materials are 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 remixed 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 45 will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

**Coating:**

The mixed ultra TC 45 should be applied to the prepared surface using a brush or a short/medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material does not occur. The second coat should be 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. released from the roller will cause unsightly blemishes in the finished coating.

**Slip resistant finish:**

A fine textured finish with improved slip resistance may be achieved by the use of Fine Aggregate. Following the application of the first coat of ultra TC 45, a scatter of Fine Aggregate should be applied into the wet coating to seed the surface, taking care to achieve a uniform distribution. The second application of ultra TC 45 will then encapsulate the fine aggregate.

**NOTE:** The coverage rate of the pack will be reduced.

**Limitations:**

Ultra TC 45 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



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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.

### Cleaning:

Ultra TC 45 can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

### Properties:

The values shown are typical of results obtained in the laboratory at  $27 \pm 1^\circ\text{C}$ . Actual performance values obtained on site may vary from those quoted.

### Technical Data sheet:

ULTRA TC 45	@ $27 \pm 1^\circ\text{C}$
Pot life	30 mins
Time between coats	8 - 24 hours
Foot Traffic	24 hours
Full cure	7 days
Dry film thickness (approx.)	2 coats (each coat 100 microns thickness)
COVERAGE ESTIMATES	
Pack size	Coverage
4.6kg	Approximately
Part A 3.60kg	30 m <sup>2</sup> per pack
Part B 1kg	per coat

**NOTE:** These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

### Storage and shelf life:

Ultra TC 45 has a shelf life of 12 months if kept in a dry, store between  $5^\circ\text{C}$  and  $30^\circ\text{C}$  in the original unopened containers. The product should be protected from frost, away from

direct sunlight and sources of heat.

### Colours:

Ultra TC 45 is available to any standard RAL Card upon request.

### Maintenance:

Good housekeeping and regular cleaning is essential in order to maintain the performance of ultra TC 45. 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  $50^\circ\text{C}$  is recommended.

### Precautions:

Ultra TC 45 should not come in contact with the skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable gloves, goggles and other protective clothing. The use of barrier creams can provide additional skin protection. When working in confined areas suitable respiratory equipment must be used. In case of contact with the skin, rinse with plenty of clean water then wash with soap and water. Do not use solvent. In case of contact with the eyes, rinse immediately with plenty of clean water, then seek medical attention without delay. If swallowed, seek medical attention straight away, do not induce vomiting.

### Disposal/Spillage:

Spillage of any of the component products should be absorbed onto sand or other inert materials 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.

### Conditions of sale:

sold subject to the Company's conditions of sale which are available on request.

### Corporate office:

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