

Product Name:

Ultra TC 42 epoxy floor

Product description:

A specialist applied, self-smoothing, epoxy resin floor finish combining outstanding wearing properties with chemical resistance and decorative properties. Ideally suited in areas where a seamless, joint free finish is required and maximum cleanliness is essential. Laboratories, clean rooms, and general light industry are just some of the environments that can benefit from this system.

Advantages:

- Hard wearing - durable with low maintenance costs
- Resistant to a wide range of chemicals and liquids
- Seamless - easily cleaned to maintain
- High standards of hygiene
- Self-smoothing properties provide a flat high gloss finish.

Area of usage:

- Power plants
- Workshops & warehouses
- Petrochemical refineries
- Food processing unit
- Dairies & cold storage rooms
- Abattoirs, beverages & soft drink bottling plants
- Industrial floor joints & coving
- Hygienic & clean environment areas
- Internal loading and unloading bays and ramps
- Chemical & Engineering Industries
- Paint shops & Battery rooms

Surface 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, either by scabble, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying Ultra TC 42. 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 14 days.

Priming:

All areas to be primed with Ultra EP 11 solvent free epoxy primer. One or more coats of primer may be required depending upon the condition and porosity of the concrete substrate. High porosity substrates may be revealed after preparation and will be evident by their rapid suction and absorption. If in doubt use two coats of Ultra EP 11 Solvent Free Epoxy Primer. Poorly primed surfaces may lead to blistering or pin holing in the cured resin.

Mixing:

The individual contents of the Ultra TC 42 part A, Part B and Part C should be thoroughly stirred before being mixed together. One or more packs may be mixed simultaneously to ensure a quick rate of installation.

Application:

The mixed Ultra TC 42 material should be applied to the prepared and primed surface without delay using a trowel or depth set rake to achieve the desired thickness. As soon as the Ultra TC 42 has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix also to blend out any trowel marks. The work area should be protected during the installation process and during the initial curing time to ensure that no debris can contaminate the surface of the resin, as this will lead to unwanted blemishes in the hardened, cured surface.

Limitations:

Ultra TC 42 should not be applied to floors that are known to have rising moisture or have relative humidity of greater than 75% at the time of application. These products should not be applied in temperatures less than 10°C or where the ambient relative humidity is greater than 85%. Should it be determined that moisture is present in the concrete then the entire surface should be treated.

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



ULTRA TC 42 – TDS

Cleaning:

Ultra TC 42 can be removed from tools and equipment by using Ultra epoxy remover immediately after use. Any hardened material will need to be removed mechanically.

Storage and shelf life:

Ultra TC 42 has a shelf life of 12 months if kept in a dry, store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

Precautions:

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 epoxy materials. Always wear gloves and eye/face protection is 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 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.

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.

Technical Data:

Pot life	30 min.
Initial hardness	24 hours
Full cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	70 N/mm ²
Flexural strength	31 N/mm ²
Tensile strength	23 N/mm ²
Shore D Hardness	> 70
Packing	16 kg
Coverage	Approx. 4.70 m ² @ 2mm thick

Corporate office:

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