Ucrete® TZAS

Heavy Duty Polyurethane Antistatic Terrazzo Floor Finish

DESCRIPTION

Ucrete TZAS is a unique HD Polyurethane antistatic resin floor with exceptional resistance to aggressive chemicals, heavy abrasion, and thermal shock.

Ucrete TZAS provides a smooth protective floor finish suitable for applications in predominantly dry environments.

It is dense and impervious providing the ideal floor finish for applications in pharmaceutical production facilities including process areas, clean room, laboratory, packing hall and warehouse applications and wherever a highly attractive, robust, long lived floor is required.

Ucrete Industrial Flooring has been widely used through-out industry for more than 40 years, many of the older floors are still in service. A detailed project reference list is available upon request

RECOMMENDED USES

Ucrete TZAS is recommended for conditions requiring an anti-static and a smooth, even and easy to clean surface with attractive terrazzo finish is required.

Specific applications include:

- Textile and film plants
- Food and beverage production
- Warehousing and storage
- Confectionery production
- Pharmaceutical production
- Chemical plants
- Electronic Industry

FEATURES AND BENEFITS

- **Expert application** - Installed only by trained and approved specialist contractors.
- **Fast application /rapid access** - Can be applied to 7-day-old concrete/3-day-old polymer screeds.
- **Short curing time** – 8hours access to foot traffic; 24 hours for vehicles.
- **Hygienic/Safe** - Non-tainting, non-dusting, monolithic (minimum joints); easy to maintain; microbiologically inert.
- **Antistatic** – Ideal for areas requiring explosion protection
- **Terrazzo Finish** – Attractive and Aesthetic appearance

ACCREDITATION

- Ucrete flooring systems are accredited for use in facilities operating HACCP based food safety systems.
- Ucrete has been awarded the Indoor **Air Comfort Gold Label** following extensive VOC emission chamber testing and auditing of quality management and production control procedures.
- All Ucrete grades give very low emissions and conform to all the emissions requirements for indoor flooring systems in Europe including **AgBB in Germany**, rated **A+** for VOC emissions from **Afsset in France** and **M1** in **Finland**.

PERFORMANCE DATA

Compressive Strength (MPa) (BS6319:Part 2)	52-57
Flexural Strength (MPa) (ISO178)	14
Compressive Modulus (MPa) (BS 6319: Part 6)	3250
Tensile Strength (MPa) (BS 6319: Part 7)	6
Concrete Adhesion (BS6319:Part2)	Concrete Failure
Resistance to Earth	
EN 1081	< 10^6 Ω
EN 61240-4-1	< 10^9 Ω
Coeff. Thermal Expansion (ASTM C531)	2.4x10-5 °C^{-1}
Slip Resistance EN 13036 (4S Rubber)	35 - 40
Density	2090 kg/m^3
Water Adsorption (CP.BM 2/67/2)	0 mL
Fire Testing (EN 13501: Part 1)	B_{FL} – S_1
Service temperatures -9 mm 12 mm	- 40°C to 120°C - 40°C to 130°C* 150°C Occasional Spillage)
Samples cured for 28 days at 20°C.	

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Anti-Static Properties

Ucrete TZAS, complies with the requirements of BS5958, DIN51953 and EN 61340-5-1.

For more detailed information on earthing anti-static floors, refer to the separate datasheet 'Guidelines to Earthing of **Ucrete** antistatic floors'.

Chemical Resistance

Ucrete TZAS offers exceptional resistance to a wide range of chemical aggressors. For example Ucrete is resistant to spillages of the following commonly encountered classes of chemicals:

Most dilute and concentrated organic acids such as, Acetic Acid, Lactic Acid, Oleic Acid and Citric Acid as commonly found in the food industry.

Dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric.

Dilute and concentrated alkalis, including sodium hydroxide to 50% concentration

Animal fats and vegetable oils, sugars flavorings and essences.

Mineral oils, kerosene, gasoline and brake fluids

A wide range of organic solvents including Methanol, Xylene, Ethers and Chlorinated solvents

Note: some staining or discoloration may occur with some chemicals, depending upon the nature of the spillage and the standards of housekeeping employed.

Extensive chemical resistance tables are available in the separate data sheet 'A guide to the chemical resistance of Ucrete Flooring'. For detailed information, please contact your local Master Builders Solutions Construction Chemicals office for guidance.

Substrate Moisture Tolerance

Ucrete Industrial Flooring is extremely tolerant to residual substrate moisture and can be installed directly onto 7 days old concrete, or onto old good quality concretes with high moisture contents without the use of special primers, pro-vided there is a functioning DPM within the structure.

This enables rapid construction programs to be maintained and facilitates refurbishment work in wet process areas.

Epoxy surface DPMs should not be used as they soften under high temperature conditions and will lead to floor failure.

Impact Resistance

With high mechanical strengths and a low elastic modulus, **Ucrete TZAS** is very resilient and able to withstand severe impact loads. While no material is indestructible and sur-face chipping may occur, brittle modes of failure resulting in cracking and debonding are unknown with Ucrete floors.

UV Resistance

The **Ucrete** resin systems have been formulated to provide the very highest chemical and heat resistance. UV exposure though not affecting the performance of the **Ucrete** will result in yellowing of the floor which is most apparent in light colors.

COLORS

Ucrete TZAS is available in Grey, Green, Cream, Yellow, Orange, Red, Blue, Light grey & Light green colors

APPLICATION

Substrate Quality

Concrete substrates should be visibly dry and have a minimum tensile strength of 1.5 MPa.

Refer to the guide 'The Design & Preparation of substrates for Ucrete Industrial Flooring'

All joints in the substrate concrete subject to movement should be reflected through the Ucrete floor and sealed with a suitable sealant

For information about application, please obtain a copy of the Master Builders Solutions "Application Guide for **Ucrete**®" from your local representative.

ESTIMATING DATA

Ucrete TZAS should be installed as per the consumption rates given below:

Thickness	Consumption
9mm	20 - 22 Kgs/m^2
12mm	26 – 27 Kgs/m^2

PACKAGING

Ucrete TZAS is supplied in multi-component polykit as given below

Ucrete TZAS Part 1	2.37 kg
Ucrete TZAS Part 2	2.86 kg
Ucrete TZAS Part 3	24.80 kg
Ucrete Part 4 pigment	0.5 kg
Ucrete TZAS Part 5	0.1 kg

PRECAUTIONS

For detailed Environmental, Health and Safety information, please consult and follow all instructions on the product Material Safety Data Sheet. Contact your local Master Builders Solutions office for the latest version.

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STATEMENT OF RESPONSIBILITY	The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.
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