

UCRETE[®] TZ AS

Anti-static heavy duty polyurethane concrete flooring system

DESCRIPTION

UCRETE TZ AS is a single layer, seamless, solvent-free, polyurethane flooring system with a smooth, terrazzo-like matt surface finish. It has high impact resistance and withstands a wide spectrum of chemicals, direct steam impact and abrasive wear.

UCRETE TZ AS meets the antistatic specifications DIN 51953, BS 5958 and BS2050:1978

FIELDS OF APPLICATION

UCRETE TZ AS is recommended for conditions requiring the maximum chemical resistance and where thermal situations occur from cool rooms to hot environment. Specific applications include:

- Electronic component manufacture and assembly
- Solvent handling; liquids processing
- Powder processing and packing
- Pharmaceutical production
- Chemical plants
- Clean areas; autoclave rooms
- Laboratories and research facilities

FEATURES AND BENEFITS

"**HACCP Accredited** Ucrete products have been accredited for use in facilities covered by HACCP accreditation."

Ucrete TZ AS has approval for use as flooring for HACCP accredited facilities.



Expert application	Installed only by trained contractors and approved specialist.
Fast application/rapid access	Can be applied to 6 day old concrete/2 day old polymer screed. Short curing time and 8 hour access to foot traffic; 20 hours for vehicles.
Hygienic/safe	Non-tainting, non-dusting, monolithic (minimum joints); easy to maintain; microbiologically inert
Durable/long life	Wide chemical resistance, wear and impact resistant, resists temperatures from -20°C to 120°C

at 9 mm thickness; 25 years of international use.

Prepacked Preweighed/ prepacked for immediate use; batch to-batch colour matched for consistency.

Aesthetics Attractive, smooth, even finish

TYPICAL PERFORMANCE DATA

(Test data after 28 days @ 20°C)

Density (BS6319:Part 5)	:	2,090 kg/m ³
Compressive Strength (BS6319:Part 2)	:	55N/mm ²
Tensile Strength (ISO R527)	:	6N/mm ²
Flexural Strength (ISO178)	:	14N/mm ²
Dynamic E-Modulus (ASTM C597-83)	:	20,000N/mm ²
Concrete Adhesion (BS6319:Part2)	:	Concrete fails
Coeff. Thermal Expansion (ASTM C531)	:	2.4x10 ⁻⁵ °C ⁻¹
Thermal Conductivity (BS874)	:	1.1W/m°C
Water Adsorption (CP.BM 2/67/2)	:	0 ml
Surface Spread of Flame (BS476:Part 7)	:	Class 2
Conductivity (BS2050, DIN 51953)	:	Less than 1 MO
Sensory evaluation (C & CFRA method TES-S-002)	:	No taint
Resistance to earth	:	DIN 51953 : <10 ⁶ ohm EN1081 : <10 ⁶ ohm

PROPERTIES

Colours	:	Yellow Cream Orange Red Green Grey
Thickness	:	9 mm (minimum) to 12 mm
Service temperatures at 9 mm	:	120°C max. & - 40°C

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The Chemical Company

UCRETE[®] TZ-AS

APPLICATION

Surface Preparation

Concrete shall be clean, structurally sound and free from foreign materials, contaminants, oily products and other debris. Concrete surfaces shall be 'visibly dry' with no standing water. The minimum tensile (pull-off) strength shall be 1.5N/mm² and concrete shall have cured for at least 5 days. Concrete substrates shall incorporate a continuous waterproofing membrane.

Concrete design shall allow provisions for movement joints, as required. In addition, provision shall be made for induced joints to allow any shrinkage of the concrete to occur along defined planes.

All laitance shall be removed. All imperfections such as holes and cracks shall be repaired and levelled with the mean level of the surface. For repairing surface unevenness, EMACO concrete repair systems shall be used.

The whole surface shall be enclosed or impact shot blasted, surface planed, ground or high-pressure water jetted. All high spots shall be removed.

Surfaces shall be rendered 'visibly dry' by heat or mechanical means. Remove all loose material and dust by vacuum or mechanical means.

Priming

UCRETE TZ AS shall be applied to a cured scratch coat of **UCRETE MF** of 1 mm nominal thickness. The scratch coat may be excluded when applying to sound, exposed aggregate substrates.

Placing

UCRETE TZ AS shall be mixed, applied only by specialist flooring contractors who have been trained in the correct application procedures.

CURING

At 30°C, foot traffic access in 8 hours; vehicular traffic in 16 hours. At 20°C, foot traffic access in 12 hours; vehicular traffic in 24 hours. Full cure at 28 days.

CLEANING

Regular cleaning, dry or wet mechanical scrubbing or hot flushing with detergents or detergent/sterilant product will enhance the floor's appearance and reduce soiling tendencies. Direct steam cleaning is suitable for floors applied at more than 8 mm thickness.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

ESTIMATING DATA

UCRETE MF : 1.0 to 2.0kg/m²

UCRETE TZ AS : : 21 to 24 kg/m²

UCRETE TZ AS Grout : 0.19 to 0.28 kg/m²

PACKAGING

UCRETE TZ AS and **UCRETE TZ Grout** are supplied in units for immediate use, consisting of:

Ucrete TZ AS Part 1 : 2.37 kg

Ucrete TZ AS Part 2 : 2.86 kg

Ucrete TZ AS Part 3 : 24.8 kg

UCRETE Liquid Pigment : 0.5kg

UCRETE Carbon Fibre : 0.1kg

UCRETE MF : Please refer to individual datasheet

UCRETE TZ Grout Part 1 : 1.071kg

UCRETE TZ Grout Part 2 : 1.09kg

UCRETE TZ Grout Part 3 : 3.50kg

SHELF LIFE

UCRETE TZ AS can be kept for 9 months from date of manufacture if stored under cover, avoiding direct sunlight impingement and at 30°C or less, and free of ground level.

PRECAUTIONS

Material Safety Data Sheets (MSDS) for each component of **UCRETE TZ AS** and **TZ Grout** are available. Gloves and eye protection shall be worn during mixing and application.

For detailed Health, Safety and Environmental recommendations, please consult and follow instructions on the product Material Safety Data Sheet.

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