

UCRETE® TZ

Heavy duty decorative polyurethane concrete flooring system

DESCRIPTION

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

FIELDS OF APPLICATION

UCRETE TZ is recommended for conditions requiring the maximum chemical resistance and where thermal situations arise from cool rooms to hot environment.

Specific applications include:

- Dry powder processing and blending
- Liquids processing and packing
- Pharmaceutical production
- Laboratories and research facilities
- Clean areas; autoclave rooms
- Chemical plants

FEATURES AND BENEFITS

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

Ucrete TZ 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.

Preweighed/ prepacked for

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

Aesthetics Attractive, smooth, even finish

TYPICAL PERFORMANCE 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
Coeff. Thermal Expansion (ASTM C531)	: 2.4x10 ⁻⁵ °C ⁻¹
Concrete Adhesion (BS6319:Part2)	: Concrete fails
Water Adsorption (CP.BM 2/67/2)	: 0 ml
Surface Spread of Flame (BS476:Part 7)	: Class 2

PROPERTIES

Colours	: Yellow
	: Cream
	: Orange
	: Red
	: Green
	: Grey

Thickness : 9mm (minimum) to 12mm

At 9mm **UCRETE TZ** floor is fully resistant to high temperature spillage and discharge up to 120°C can be fully steam cleanable.

At 12mm **UCRETE TZ** floor is fully resistant to high temperature spillage and discharge up to 130°C and occasional spillage up to 150°C is fully team cleanable.

In extreme thermal shock environment a well designed substrate of food quality concrete is essential.

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

BASF Construction Chemicals offices in ASEAN

Singapore
Tel : +65-6861-6766
Fax : +65-6861-3186

Malaysia
Tel : +60-3-3344-3388
Fax : +60-3-3344-2288

Indonesia
Tel : +62-21-893-4339
Fax : +62-21-893-4342

Thailand
Tel : +66-3845-3020
Fax : +66-3845-3029

Vietnam
Tel : +84-650-743-100
Fax : +84-650-743-200

Philippines
Tel : +63-2-632-9995
Fax : +63-2-632-9996



The Chemical Company

UCRETE[®] TZ

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 shall be applied to a cured scratch coat of **UCRETE MF** of 1 mm nominal thickness. If the substrate is sound with exposed aggregate, the scratch coat may be omitted.

Placing

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

For detailed application, please refer to BASF Construction Chemicals representative.

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 8mm thickness.

ESTIMATING DATA

UCRETE MF : 1.0 to 2.0 kg/m²

UCRETE TZ : 21 to 24 kg/m²

UCRETE TZ Grout : 0.19 to 0.28 kg/m²

PACKAGING

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

UCRETE TZ Part 1 : 2.37 kg

UCRETE TZ Part 2 : 2.86 kg

UCRETE TZ 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 : 1.07kg

UCRETE TZ Grout Part 2 : 1.09kg

UCRETE TZ Grout Part 3 : 3.50kg

SHELF LIFE

UCRETE TZ can be kept for 9 months from date of manufacture when stored at 30°C or less above ground level and under cover in original unopened packaging.

PRECAUTIONS

Material Safety Data Sheets (MSDS) for each component of **UCRETE TZ 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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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

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