

# UCRETE<sup>®</sup> UD200

Heavy duty polyurethane concrete flooring system

## DESCRIPTION

**UCRETE UD200** is a single layer, seamless, solvent-free, polyurethane flooring system. It has a textured matt finish possessing a wide spectrum of chemical resistance; withstands abrasive wear; has high impact resistance and withstands direct steam impact.

## FIELDS OF APPLICATION

**UCRETE UD200** is recommended for conditions requiring the maximum of chemical resistance, health and safety and where thermal situations arise, from cool rooms to hot environments.

Specific applications include:

- meat, fish and poultry processing
- food and beverage production
- dairies, cheese and milk products
- cold rooms, chillers and freezers
- pharmaceutical production
- chemical plants

## FEATURES AND BENEFITS

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

*Ucrete UD200 has approval for use as flooring for HACCP accredited facilities.*



<b>Expert application</b>	Installed only by trained and approved specialist contractors.
<b>Fast application/rapid access</b>	Can be applied to 6-day-old concrete or 2 day old polymer screeds. Short curing time and 8 hour access to foot traffic; 20 hours for vehicles.
<b>Hygienic/safe</b>	Slip resistant, non-tainting, non-dusting, monolithic (minimum joints), easy to maintain, microbiologically inert.
<b>Durable/long life</b>	Wide chemical resistance, wear and impact resistant, resists temperatures from -40°C to 120°C at 9 mm thickness; 25 years of international use.
<b>Prepacked</b>	Preweighed/ prepacked for immediate use; batch to-batch colour matched for consistency.

## TYPICAL PERFORMANCE DATA

(After 28 days @ 20°C)	
Compressive Strength (BS6319:Part 2)	: 58N/mm <sup>2</sup>
Flexural Strength (ISO178)	: 14N/mm <sup>2</sup>
Compressive Modulus (BS 6319-Part 6)	: 3,250N/mm <sup>2</sup>
Tensile Strength (ISO R527)	: 6N/mm <sup>2</sup>
Concrete Adhesion	: Concrete fails
Coeff. Thermal Expansion (ASTM C531 Part 4)	: 4x10 <sup>-5</sup> °C <sup>-1</sup>
Thermal Conductivity (BS874)	: 1.1W/m°C
Density (BS6319:Part 5)	: 2,090 kg/m <sup>3</sup>
Permeability (water absorption 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	: 6 to 12 mm.

A 6mm **UCRETE UD200** floor is fully resistant to liquid spillage and discharge up to 70°C and can be lightly steam cleaned.

At 9mm **UCRETE UD200** floor is fully resistant to high temperature spillage and discharge up to 120°C can is fully steam cleanable.

At 12mm **UCRETE UD200** 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.

### Substrate Quality

Concrete substrates should be visibly dry and have a minimum tensile strength of 1.5MPa  
Refer to the guide "The Design & Preparation of Substrates for UCRETE Industrial Flooring.

### Coverage

6mm	: 13-15 kg/m <sup>2</sup>
9mm	: 19-22 kg/ m <sup>2</sup>
12mm	: 24kg/ m <sup>2</sup>

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The Chemical Company

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## 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/mm<sup>2</sup> and concrete shall have cured for at least 6 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 UD200** shall be applied to a cured scratch coat of **UCRETE MF** of 1 mm nominal thickness.

### Placing

**UCRETE UD200** shall be mixed and 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 8mm thickness.

## ESTIMATING DATA

2.45 to 2.50 kg/m<sup>2</sup>/mm thickness

## PACKAGING

**UCRETE UD200** is supplied as complete units for immediate use, consisting of:

**Ucrete UD200 Part 1** : 2.65 kg

**Ucrete UD200 Part 2** : 2.64 kg

**Ucrete UD200 Part 3** : 25.0 kg

## SHELF LIFE

**UCRETE UD200** can be kept for 12 months from date of manufacture if stored above ground level in original unopened packing under cover, avoiding direct sunlight impingement and at 30°C or less.

## PRECAUTIONS

Material Safety Data Sheets (MSDS) for each component of **UCRETE UD200** 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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