

UCRETE[®] 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.

RECOMMENDED FOR

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.



- **Expert application-** Installed only by trained and approved specialist contractors.
- **Fast application/rapid access-** Can be applied to 6-day-old concrete or 2 day old polymer screeds. Short curing time and 8 hour access to foot traffic; 24 hours for vehicles.
- **Hygienic/Safe-** Slip resistant, 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 -40°C to 130°C at 9 mm thickness; resistant to occasional spillage to 150°C; more than 25 years of international use.
- **Pre-packed-** Pre-weighed/ pre-packed for immediate use; batch to-batch colour matched for consistency.

PERFORMANCE DATA

After 28 days @ 20°C

Compressive Strength (BS6319:Part 2)	: 58 MPa
Flexural Strength (ISO178)	: 14 MPa
Dynamic E-Modulus (ASTM C597-83)	: 19.5 GPa
Tensile Strength (ISO R527)	: 6 MPa

Concrete Adhesion (BS6319:Part2)	: concrete fails
Abrasion Resistance (Taber H22)	: 1390mg
Coeff. Thermal Expansion (ASTM C531)	: $2.4 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$
Thermal Conductivity (BS874)	: 1.1W/m°C
Surface Resistivity (BS2050)	: 3×10^{-4} ohms
Density (BS6319:Part 5)	: 2090 kg/m ³
Water Adsorption (CP.BM 2/67/2)	: 0 mL
Surface Spread of Flame (BS476:Part 7)	: Class 2

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

PROPERTIES

Colours: Yellow, Cream, Orange, Red, Green and Grey.

Thickness	4 to 9 mm.
Service temperatures:	
at 9 mm	120°C maximum & - 40°C
at 4 mm	80°C* maximum & - 15°C

*Excursions to 80°C during cleaning allowable

ESTIMATING DATA

2.45 to 2.50 kg/m²/mm thickness

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 leveled 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.



The Chemical Company

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For information about application, please obtain a copy of the BASF "Application Guide for UCRETE " from your local representative.

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.

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.

PACKAGING

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

UCRETE UD200 Part 1	:	2.52 kg
UCRETE UD200 Part 2	:	2.86 kg
UCRETE UD200 Part 3	:	24.8 kg
Liquid Pigment Sachet	:	0.5 kg

SHELF LIFE

UCRETE UD 200 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

Wear gloves and eye protection during mixing and application.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)**) for each component of UCRETE UD200 from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** 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** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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