

UCRETE[®] UD200 POLYKIT

Heavy duty polyurethane concrete flooring system

DESCRIPTION

UCRETE UD200 Polykit 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 Polykit 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 Polykit 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 120°C at 9 mm thickness; 25 years of international use.

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

ESTIMATING DATA

6 mm : 13 – 15 kg/m²
 9 mm : 19 – 22 kg/m²
 12 mm : 24 kg/m²

PERFORMANCE DATA

(After 28 days @ 20°C)

Compressive Modulus (BS 6319 – Part 6)	: 3,250N/mm ²
Tensile Strength (ISO R527)	: 6N/mm ²
Concrete Adhesion (BS6319:Part2)	: Concrete fails
Coeff. of Thermal Expansion (ASTM C531 Part 4)	: 4x10 ⁻⁵ °C ⁻¹
Thermal Conductivity (BS874)	: 1.1W/m°C
Density (BS6319:Part 5)	: 2,090 kg/m ³
Permeability (water absorption to CP. BM2/67/2)	: 0 ml
Surface Spread of Flame (BS476:Part 7)	: Class 2
Compressive Strength (BS 6319:Part 2)	: 58 MPa

PROPERTIES

UCRETE UD200 Polykit is available in six standard colours: Red, Yellow, Green, Orange, Grey and Cream

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

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

At 12mm UCRETE UD200 Polykit 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 1.5 MPa.

Refer to the guide "The Design and Preparation of Substrates for UCRETE Industrial Flooring"

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 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.



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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 Polykit shall be applied to a cured scratch coat of UCRETE MF of 1 mm nominal thickness.

Placing

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

UCRETE UD200 Polykit Part 1:	2.37 kg
UCRETE UD200 Polykit Part 2:	2.86 kg
UCRETE UD200 Polykit Part 3:	24.8 kg
UCRETE UD200 Polykit Part 4:	0.5kg

SHELF LIFE

UCRETE UD200 Polykit can be kept for 12 months from date of manufacture when stored in covered warehouse conditions, above 5°C and below 30°C, in original unopened packaging and out of direct sunlight. Materials must be raised off the floor and kept dry.

PRECAUTIONS

Material Safety Data Sheets (MSDS) for each component of UCRETE UD200 Polykit are available. Gloves and eye protection shall be worn 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)** from our office or our website.

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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. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**

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 Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

BASF Construction Chemicals offices in ASEAN

Singapore Tel: +65-6861-6766 Fax: +65-6861-3186	Malaysia Tel: +60-3-5628-3888 Fax: +60-3-5628-3776	Indonesia Tel: +62-21-526-2481 Fax: +62-21-526-2541	Thailand Tel: +66-2-664-9222 Fax: +66-2-664-9267	Vietnam Tel: +84-650-374-3100 Fax: +84-650-374-3200	Philippines Tel: +63-2-889-4321 Fax: +63-2-889-4361
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Website: www.ap.cc.basf.com