

Ucrete UD 200

Heavy duty polyurethane hybrid flooring system

Material Description

Ucrete UD200 is a single layer, seamless, solvent-free, polyurethane flooring system. Its textured matt finish possesses excellent chemical resistance, withstands abrasive wear, has high impact resistance and withstands direct steam contact.

Areas of Application

Ucrete UD200 is recommended for conditions requiring maximum chemical resistance, slip resistance and cleanability, especially in extreme temperature environments.

Specific applications include:

- Meat, fish and poultry processing
- Food and beverage production
- Dairies, cheese and milk production
- Commercial and industrial kitchens
- Cold rooms, chillers and freezers
- Pharmaceutical production
- Chemical plants

Characteristics and Benefits

- Expert application - installed only by trained specialist contractors.
- Fast application and reduces downtime - quick one step application, no need for scratchcoat in most cases. Can be applied to 6 day old concrete or 2 day old polymer screeds.
- Fast return to service - 8 hour access to foot traffic; 24 hours for vehicles at 23°C.
- Ucrete Fast option – maintains cure time at low temperatures to give 8 hour foot traffic access at 50C.
- Suitable for application and use in food production facilities - non-tainting, non-dusting, unaffected by constantly wet floors or common food chemicals and microbiologically inert.
- High chemical resistance - resists a wide range of organic and inorganic chemicals such as acids, alkalis, amines, salts and solvents.
- High mechanical resistance - wear and; high abrasion resistance due to use of calcined aggregates

- High impact resistance – will dent rather than star crack like epoxies maintaining floor integrity in harsh environments.
- Resistant to thermal cycling - similar coefficient of thermal expansion to concrete.
- High Tg - keeps physical characteristics from -25°C up to +130°C.
- Durable/long life - more than 40 years of international use.
- Slip resistance - natural textured surface provides anti-slip surface, of R11.
- Colours – Grey, Cream, Yellow, Green, Red, Light Green and Light Grey.

Accreditation

- Ucrete has approval for use as flooring for HACCP accredited facilities.
- Ucrete conforms to The Leadership in Energy & Environmental Design Green Building Rating System LEED® being sustainable and environmentally friendly flooring materials.
- Ucrete floors have obtained the Indoor Air Comfort Gold certificate from Eurofins, with the low levels of emissions to the air and non-tainting properties.
- Ucrete complies with the U.S. Department of Agriculture (USDA) standards for use in federally inspected meat and poultry plants in the USA.

Properties

Compressive Strength (BS6319:Part 2)	52 -57 MPa
Flexural Strength (ISO I78)	14 MPa
Dynamics 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)	4x10-5 °C-1

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Thermal Conductivity (BS874)	1.1 W/m°C
Density (BS6319:Part 5)	2090 kg/m ³
Water Adsorption (CP:BM 2/67/2)	0 mL
Slip resistance HB 198	P4
Fire Testing (EN13501: Part 1)	BFL – S1
Thickness range	Service temperatures
6 mm*	-25°C to 80°C
9 mm	-25°C to 120°C
12mm	-25°C to 130°C

Samples cured for 28 days at 20°C.

**Excursions to 90°C during cleaning allowable*

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

Chemical Resistance

For detailed information, please contact your local Technical Sales Representative for guidance.

Substrate Moisture Tolerance

Ucrete Industrial Flooring is extremely tolerant to residual substrate moisture and can be installed directly onto 6 day old concrete, or onto sound existing concrete (slab on ground) with high moisture contents without the use of special primers provided there is a functioning damp proof membrane below the slab. This enables rapid refurbishment work in wet process areas.

Epoxy surface DPMs offer no benefit and should not be used with Ucrete floors.

UV Resistance

The Ucrete resin systems have been formulated to provide the very highest chemical and heat resistance. UV exposure though not affecting the performance of the Ucrete will result in yellowing of the floor which is most apparent in light colours.

Application

Ucrete does not need a primer but for best performance **Ucrete UD200** should be applied to a cured scratch coat of Ucrete MF of 1 mm nominal thickness. This is required for food and beverage facilities to eliminate pin holes.

For information about application, please obtain a copy of the Ucrete Application Manual from your local representative.

Estimating Data

2kg/m² per mm of floor thickness.

Scratch Coat:

2.25 kg / m² for a 1 mm thick

Base Coat:

6mm UD200: 12 kg/m²

9mm UD 200: 18 kg/m²

12mm UD 200: 24 kg/m²

Note: a scratch coat forms part of the build-up thickness (eg a 6 mm Ucrete UD200 floor with a scratch coat is 2.25kg/m² for the scratch coat and 10 kg/m² for the rest of the thickness giving a DFT of 6mm). The coverage rates are theoretical and make no allowance for wastage and site specific conditions.

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	23.6 kg
Liquid Pigment Sachet Part 4	0.5 kg

Storage

Store in covered warehouse conditions, above 5°C and below 30°C and out of direct sunlight. Materials must be raised off the floor and kept dry. Liquid components must be protected from frost.

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Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Disclaimer

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STATEMENT OF RESPONSIBILITY

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