BASF
The Chemical Company

UCRETE UD200

Heavy duty polyurethane concrete flooring

Description

UCRETE UD200 is a three part polyurethane concrete, designed for application by trowel at thicknesses of 6mm and above.

Uses

UCRETE UD200 floors find their widest use in the food industry. They have a light profiled finish giving an optimum combination of wet / dry slip resistance and ease of cleaning. The choice of thickness is determined by service / cleaning temperatures and severity of traffic.

Benefits

- Expert installation
  - Installed only by fully-trained applicators.
- Fast application
  - Can be laid on 7-day-old concrete / 3-day-old polymer screed.
  - Short curing times.
- Hygienic and safe
  - Non-tainting
  - Will not support bacterial growth.
  - Monolithic – minimises joints
  - Easy to clean
  - Slip-resistant
  - Non-dusting
- Long life
  - Resistant to a wide range of chemicals
  - Excellent wear and impact resistance
  - Resistant to temperatures -40°C to +120°C at 9mm thickness; -40°C to +70°C at 6mm thickness
- Proven track record
  - 25 years of project references

Packaging

UCRETE UD200 is supplied as three factory-batched components.

UCRETE UD200

Part 1 : 2.67kg net weight
Part 2 : 2.86kg net weight
Part 3 : 24.8kg net weight
Colour Pack : 400 grams
Total pack size 30.73kg

UCRETE UD200N

Part 1 : 2.56kg net weight
Part 2 : 2.73kg net weight
Part 3 : 22.2kg net weight
Colour pack : 400 grams
Total pack size 27.89kg

Colours

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

Other colours may be available to meet special requirements but will be subject to minimum order quantities and may require extended lead times.

Typical physical properties (*)+

Density (BS 6319 Part 5)	2090kg/m³
Compressive strength (BS 6319 Part 2)	58N/mm²
Tensile strength (ISO R527)	6N/mm²
Flexural strength (ISO 178)	14N/mm²
Dynamic elastic modulus (ASTM C597-83)	19500N/mm²
Adhesive strength to concrete (BS 6319 : Part 4)	concrete failure
Co-efficient of thermal expansion (ASTM C531 Part 4.05)	2.4×10^{-5}°C^{-1}
Thermal conductivity (BS 874)	1.1W/m°C
Water absorption (CP.BM 2/67/2)	0ml
Surface spread of flame (BS 476 : Part 7)	Class 2

(*) samples cured for 28 days at 20°C

Application

Substrate quality:
Substrates will normally be concrete or polymer modified screeds. Other substrates may be suitable; consult your specialist applicator or local BASF office for advice.

All substrates must be clean and free from dust and loose particles. Concrete and other cementitious substrates must be visibly dry and have a minimum tensile (pull-off) strength of 1.5 N/mm². UCRETE UD200 may be applied to substrates of lower strength but the long-term performance of the floor may be affected. All traces of contaminants, such as oils, fats, greases, paint residues, chemicals, algae and laitance, should be removed.

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Preparation of substrate:

As with all surface coatings, proper surface preparation is vital to ensure the successful application and performance of UCRETE UD200.

The preferred method of surface preparation is vacuum shot blasting. Other methods, such as air impact hammer (scabbler) – provided that the substrate is not damaged, concrete surface planer, grit blasting, wire brush scarifier, surface grinder, drum sander and flame spaller, can be satisfactory. Chemical methods, such as acid etching, are not reliable and not recommended.

Priming:

If the surface quality of the finished UCRETE floor is important for hygiene or aesthetic reasons, the prepared substrate should be primed with PRIMER SC prior to the application of UCRETE flooring.

Mixing and application:

Full details of correct mixing and application procedures are given in the UCRETE Application Manual which is available to licensed and specialist applicators only.

Curing:

The following table should be used as a guide at 15 to 25°C:

Foot traffic	8 hours
Light traffic	24 hours
Full traffic and chemical resistance	48 hours

Coverage

Coverage is influenced by substrate roughness, porosity and temperature.

Chemical resistance

UCRETE UD200 will resist spillages of:

- dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric
- dilute and concentrated alkalis, including sodium hydroxide to 50% concentration
- most dilute and concentrated organic acids
- fats, oils and sugars
- mineral oils, kerosene, gasoline and brake fluids
- most organic solvents

In many cases resistance is maintained to elevated temperatures even under thermal shock conditions. A maximum service temperature of 120°C at a thickness of 9mm (70°C at 6mm thickness) should be observed.

Detailed information on chemical resistance is available from BASF Middle East.

Cleaning

Cleaning of plant and equipment should be undertaken well away from the application area. Xylene may be used to clean equipment, tools and spillages. In the case of spillages, excess material must first be absorbed onto sawdust or other disposable absorbent medium. Use correct handling procedures with solvents and take care to avoid any accidental spillage or splashes onto coated surfaces.

Part 2 containers may contain small amounts of unreacted diisocyanates (MDI). Therefore they must be decontaminated with a 5% solution of soda ash (sodium carbonate or washing soda) prior to disposal as building waste.

Maintenance

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

Specialised floor cleaning equipment and chemicals are ideally available and the suppliers are able to offer advice on appropriate cleaning regimes.

Storage

All parts of UCRETE UD200 should be stored under cover and free off the ground. Storage conditions should be dry, above 5°C and below 30°C. Parts 1 must not be allowed to freeze.

Health and safety

Appropriate health and safety advice can be found in the Material Safety Data Sheets.

Users are advised to wear gloves and eye protection when mixing and applying UCRETE UD200.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until products is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use and dispose off empty containers correctly.

UCRETE UD200

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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+ Properties listed are only for guidance and are not a guarantee of performance.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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