Ucrete® UD200
Heavy Duty Polyurethane-Concrete Floor Finish System

DESCRIPTION
Ucrete UD200 is a four-component polyurethane-concrete system. This trowel applied floor system is installed at a finish thickness of 1/4" to 1/2" (6–12 mm). The thickness is determined by the service and cleaning temperatures and the severity of traffic expected. The UD200 floors are extremely tough and have many physical properties that exceed those of typical concrete. It provides a lightly textured protective floor finish suitable for applications in wet and dry process environments.

PACKAGING
Part 1 and 2: 3 liter jugs filled to provide the proper ratio
Part 3: 59.1 lbs. (26.8 kg) bag
Part 4: 1.1 lbs. (.5 kg) pigment pack

YIELD
For coverage rates, refer to the Ucrete Contractor Installation Guideline.

COLORS
Ucrete UD200 base color: Red, Gray, Cream, Blue, Green, Charcoal

SUBSTRATE
• Over new and existing concrete surfaces and toppings; when applying over other substrates, contact BASF Technical Service.

STORAGE
Store and transport in unopened container in a clean, dry area at stable temperatures approximating 40 to 86 °F (5 to 30 °C). Must be protected from frost.

SHELF LIFE
Part 1: 9 months when properly stored
Part 2: 1 year when properly stored
Part 3: 9 months when properly stored
Part 4: 2 years when properly stored

WHERE TO USE
• Meat, Poultry and Seafood Plants
• Dairy Plants
• Beverage and Bottling Facilities
• Pharmaceutical Plants
• Commercial Kitchens and Restaurants
• Chemical Processing Plants
• Freezers and Coolers

LOCATION
• Interior or exterior applications
• Some color instability in direct UV exposures.

FEATURES

RESULTS

Thermal stability
Resists steam or continuous hot-water cleaning

Fast curing, in temps as low as 50 °F / 10 °C
Minimized down time

Solvent free
Low odor; VOC compliant

Can be applied to 7–10 day old concrete
Accelerates work schedules

Chemical resistant
Tolerates organic and inorganic acids, alkalis and salts

Unaffected by freeze/thaw cycles
Handles wide temperature fluctuations

Wide temperature in-service range
Exceeds that of typical epoxy overlays

Excellent impact abrasion resistance
Handles heavy traffic

For the use in facilities operating HACCP
Can be used in food and beverage facilities
Technical Data Composition

Ucrete UD200 is a four-component polyurethane concrete system.

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength, psi (MPa)</td>
<td>7792 / 7387 psi (53.7 / 50.9 MPa)</td>
<td>ASTM C579, Load rate 2/1</td>
</tr>
<tr>
<td>Tensile strength, psi (MPa)</td>
<td>845 psi (5.82 x 10^9 Mpa)</td>
<td>ASTM C307</td>
</tr>
<tr>
<td>Density, lb./ft^3 (g/cm^3)</td>
<td>130.47 lb. /ft^3 (2.1 g/cm^3)</td>
<td></td>
</tr>
<tr>
<td>Impact resistance</td>
<td>IR&gt;4</td>
<td>EN 13813:2002</td>
</tr>
<tr>
<td>Compressive modulus, psi (MPa)</td>
<td>0.0004 psi (3250 MPa)</td>
<td>BS 6319: Pt 6</td>
</tr>
<tr>
<td>Flexural strength, psi (MPa)</td>
<td>2030.53 psi (14 MPa)</td>
<td>ASTM C580</td>
</tr>
<tr>
<td>Water absorption</td>
<td>0</td>
<td>CP. BM2/67/2</td>
</tr>
</tbody>
</table>

Chemical Resistance

Ucrete UD200 offers exceptional resistance to a wide range of chemical aggressors. For example, Ucrete is resistant to the following commonly encountered chemicals:

- Acetic Acid, 50%: Spirit vinegar is widely used in the food industry, indicative of resistance to vinegar, sauces, etc.

- Concentrated Lactic Acid @ 140 °F (60 °C): Indicative of resistance to milk and dairy products.

- Oleic Acids, 100% @ 140 °F (60 °C): Representative of the organic acids formed by oxidation of vegetables and animal fats widely encountered in the food industry.

- Concentrated Citric Acid: As found in citrus fruits and representative of the wider range of fruit acids which can rapidly degrade other resin floors.

- Methanol, 100%: Representative of alcohols and the wider range of solvents used in the pharmaceutical industry.

- Resistant to a wide range of mineral oils, salts and inorganic acid.

NOTE: Full chemical resistance is achieved after curing for 7 days. For chemical resistance to a specific compound, consult the Chemical Resistance Guide. Some staining or discoloration may occur with some chemicals, depending upon the nature of the spillage and the standards of housekeeping employed. Contact your local BASF representative for more information.
6. Immediately after troweling, back rolling of a short nap roller will provide a more even finish. The roller should not pass over the surface more than twice.

**NOTES:**
Do not use a short nap roller to flatten out the surface of a poorly troweled floor.
Do not back-roll into partially cured material, as it will be visible in the floor finish. Avoid excessive build up of resin on the roller by rolling out immediately in front of the wet edge, or on a piece of cardboard.

The use of a short nap roller will reduce the slip resistance and care should be taken that the correct degree of slip resistance versus ease of cleaning is produced in line with the end user’s requirements. Excessive use of the roller can lead to the inclusion of air into the surface of the floor resulting in pinholes.

**CURING TIME**
The floor can be returned to full service after 12–24 hours at 70 °F (21 °C).
If using Ucrete Accelerator, reference table to understand accelerator requirements at various room temperatures and corresponding cure times. Material should be conditioned at 70 °F (21 °C) for optimal cure results and workability.

### MAINTENANCE
Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance and reduce any tendency to retain dirt. UD200 is readily cleaned with industry standard cleaning chemicals and equipment. UD200 will withstand steam-cleaning, high pressure hot-water wash-downs along with a wide range of decontamination and degreasing materials.
**FOR BEST PERFORMANCE**

- The owner and architect should discuss joint details with the flooring contractor before the job starts.
- Substrates must be structurally sound, clean, dry, and free of any foreign matter that could inhibit adhesion.
- Do not apply at temperatures below 40 °F (5 °C) or above 86 °F (30 °C) or if the relative humidity is above 85%.
- Do not apply directly to unreinforced sand cement screeds, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, aluminum, existing coatings, epoxies, or polyesters. For optimal performance, apply directly to concrete. Consult with your Ucrete representative for advice.
- UD200’s variations in thickness will affect the system’s thermal and impact resistance. Thicker systems will provide the highest level of thermal shock and impact resistance:
  - 1/4” UD200 floor is suitable for freezer temperatures down to -13 °F (-25 °C).
  - 3/8” UD200 floor is fully resistant to high temperature spillage and discharge up to 248 °F (120 °C) and is fully steam cleanable. Suitable for freezers down to -40 °F (-40 °C).
  - 1/2” UD200 floor is fully resistant to high temperature spillage and discharge up to 266 °F (130 °C) and occasional spillage up to 302 °F (150 °C) and is fully steam cleanable. Suitable for freezer temperatures down to -40 °F (-40 °C).
- BASF representatives and flooring specialists are available to assist you in the selection of the proper flooring system. Call 1-800-243-6739 for in-house and field technical assistance.
- Make certain the most current versions of the product data sheets and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not supervising or providing quality control on the jobsite.

**HEALTH, SAFETY AND ENVIRONMENTAL**

Read the Health, Safety and Environmental, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbsct@basf.com or calling 1(800)433-9517. Use only as directed. For medical emergencies only, call ChemTrec® 1(800)424-9300.

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