

Ucrete® RG

Heavy Duty Polyurethane Concrete for forming Cove Bases and Renovating Walls

PACKAGING

Part 1 and 2: 1.2 liter jugs filled to provide the proper ratio

Part 3: 22 lbs. (10 kg) bag

Part 4: 1.1 lbs. (.5 kg) pigment pack

YIELD

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

COLORS

Ucrete colors: Red, Gray, Cream, Blue, Green, Charcoal.

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

DESCRIPTION

Ucrete RG is a unique Heavy Duty Polyurethane thixotropic resin mortar designed for vertical applications, such as forming cove bases and renovating walls. It has exceptional resistance to aggressive chemicals, heavy impact and temperatures up to 248 °F (120 °C).

Ucrete RG provides a heavy duty cove base for vertical applications in wet and dry process environments. It is dense and impervious providing the ideal finish for applications in the food and beverage, pharmaceutical and chemical industries.

Ucrete Industrial Flooring has been widely used throughout industry for more than 40 years, many of the older floors are still in service.

FEATURES	BENEFITS
• Thermal stability	Resists steam or continuous hot-water cleaning
• Fast curing	Minimized down time
• Solvent free	Minimized down time
• 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
• For the use in facilities operating HACCP	Can be used in food and beverage facilities

SUBSTRATE

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

LOCATION

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

WHERE TO USE

- Cove Base Applications for any Ucrete System
- To protect drains, tank bases, sumps containment pits, curbs and other vertical surfaces
- Pharmaceutical Plants
- Commercial Kitchens and Restaurants
- Chemical Processing Plants
- Freezers and Coolers
- Dairy Plants
- Meat, Poultry and Seafood Plants
- Beverage and Bottling Facilities

TECHNICAL DATA COMPOSITION

Ucrete RG is a four-component polyurethane concrete system.

TEST DATA

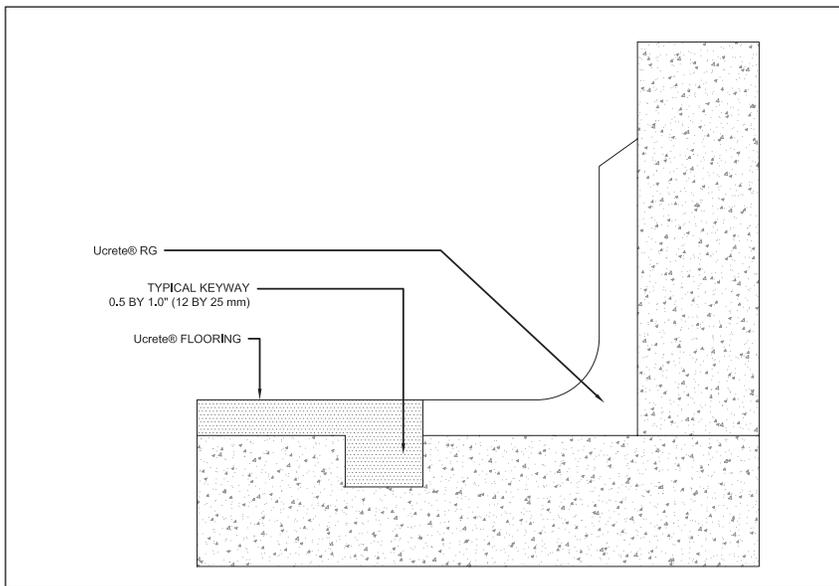
PROPERTY	RESULTS TEST	METHODS
Compressive strength, psi (MPa)	6526.7 psi (45-52 MPa)	EN13892
Tensile strength, psi (MPa)	1015.3 psi (7 MPa)	BS6319 part 7
Density, lb./ft ³ (g/cm ³)	130.47 lb./ft. ³ (2.1 g/cm ³)	
Flexural Strength, psi (MPa)	2175.6 psi (15 MPa)	EN 13892

Chemical Resistance

Ucrete RG 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.



HOW TO APPLY

Ucrete systems are installed by approved contracting firms who have completed the manufacturer's training workshops. Ucrete is a globally branded product line with industry

synergies around the world. The following is only a summary of the installation techniques used by your Ucrete approved contractors. Refer to the Ucrete Contractor Installation Guideline for more information.

SURFACE PREPARATION

1. Floors must be structurally sound and properly cured. Test floor for vapor drive in accordance with ASTM D 4263 or ASTM F 1869.
2. Repair concrete as necessary.
3. Use commercial degreaser to clean floors of oil, grease and other bond-inhibiting materials.
4. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.
For RG at 1/8", profile to ICRI CSP 3-4.
For RG at 3/16", profile to ICRI CSP 4-5.
For RG at 5/16", profile to ICRI CSP 5-6.

PRIMING

Prime surface with Primer RG apply Ucrete RG to the primer while still tacky (in lieu of Primer RG, apply a coat of Ucrete RG and wait until tacky.

APPLICATION

1. Open jugs of Part 1, Part 2 and Part 4 liquid pigment pack.
2. Mix the 3 components in a forced action mixer. Refer to Installation Guidelines for mixing times.
* Ideal mixer is a drill (<350 RPM) equipped with Jiffler paddle.

3. Add the powdered Part 3 and continue mixing for another 2-4 minutes (temperature dependent). Scrape sides at least once. Do not mix by hand.
4. Immediately discharge the product and place material on substrate to be coated. Mix subsequent batches immediately.
5. Apply Ucrete RG by trowel, a normal application being in layers of 1/8-1/4" or 3/8" depending on the specifications. Special coving trowels are available and can be used. Stainless steel or plastic trowels will minimize the risk of trowel burn, especially with lighter colors.
6. Close the surface with a short nap roller, taking care not to overwork.
*In most circumstances, 3/8" of Ucrete RG can be applied to the vertical in a single application.

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.
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).

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance and reduce any tendency to retain dirt. Ucrete RG is readily cleaned with industry standard cleaning chemicals and equipment. Ucrete RG 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.
- Ucrete RG 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:
- 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 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.com, e-mailing your request to basfbcsst@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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