

UCRETE[®] WR

Heavy duty polyurethane render for vertical surfaces

Description

UCRETE[®] WR is a three-part polyurethane render for covering vertical surfaces. It is designed for application by trowel at thicknesses of 3mm and above. UCRETE[®] WR should always be applied onto PRIMER GC or PRIMER TC, a solvent-free, two-component tack primer.

Uses

UCRETE[®] WR is used to form coves and skirtings and to protect plinths, drains, tank bases, sumps, effluent storage pits and other vertical surfaces.

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
 - Monolithic – minimises joints
 - Easy to clean
 - Non-dusting
- Long life
 - Resistant to almost all chemicals
 - Excellent wear and impact resistance
 - Resistant to temperatures -40°C to +120°C
- Proven track record
 - 25 years of project references

Packaging

UCRETE[®] WR is supplied as a 15.3kg multi-component:

Part 1: 1.01kg net weight.

Part 2: 1.09kg net weight.

Part 3: 12.8kg net weight.

Colour Pack: 0.4kg

Total pack size 15.3kg.

Colours

UCRETE[®] WR 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

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

Density (BS 6319 Part 5)	2100kg/m ³
Compressive strength (BS 6319 Part 2)	45N/mm ²
Tensile strength (ISO R527)	7N/mm ²
Flexural strength (ISO 178)	10N/mm ²
Dynamic elastic modulus (ASTM C597-83)	18000N/mm ²
Adhesive strength to concrete (BS 6319 : Part 4)	concrete failure
Co-efficient of thermal expansion (ASTM C531 Part 4.05)	2.4 x 10 ⁻⁶ °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

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Application

Substrate quality:

Substrate will normally be concrete or polymer-modified screeds. Other substrates may be suitable, consult your specialist applicator or BASF Construction Chemicals 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[®] WR 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.

Preparation of substrate:

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

For practical reasons, coves are generally prepared by wire-brushing or grinding, whilst vertical surfaces may require abrasive blasting followed by vacuum cleaning to remove loose particles.

Mixing and application:

Full details of correct mixing and application procedures for both PRIMER TC and UCRETE[®] WR 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 - 25°C:

Operational	8 hours
Full traffic and chemical resistance	48 hours

Coverage

3mm: 7-8kg/m²

6mm: 12-13kg/m²

Not including cove radius.

Coverage is influenced by substrate roughness, porosity and temperature.

Chemical resistance

UCRETE[®] WR 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. Temperature resistance is, however, dependent on thickness.

At 3mm a maximum service temperature of 60°C should be observed. This rises to 120°C at a thickness of 9mm.

Detailed information on chemical resistance is available from BASF Construction Chemicals.

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

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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. Consult your specialist applicator or BASF Construction Chemicals office for advice.

Storage

All parts of PRIMER TC and UCRETE[®] WR should be stored under cover and free off the ground. Storage conditions should be dry, above 5°C and below 30°C. Part 1 of UCRETE[®] WR 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 PRIMER TC and UCRETE[®] WR.

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.

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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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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