

# Ucrete<sup>®</sup>WR

## Heavy duty polyurethane render for vertical surfaces

### Description

Ucrete<sup>®</sup>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<sup>®</sup>WR should always be applied onto PrimerTC, a solvent-free, two-component tack primer.

### Uses

Ucrete<sup>®</sup>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 7day-old concrete / 3day-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<sup>®</sup>WR is supplied as a 15.3kg multi-component kit:

Part 1	1.01kg net weight.
Part 2	1.09kg net weight.
Part 3	12.8kg net weight

Total pack size 15.3kg.

### Colours

Ucrete<sup>®</sup>WR is available in five standard colours:  
Cream, Green, Grey, 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\*

samples cured for 28 days at 20°C

Density (BS 6319 Part 5)	2100kg/m <sup>3</sup>
Compressive strength (BS 6319 Part 2)	45N/mm <sup>2</sup>
Tensile strength (ISO R527)	7N/mm <sup>2</sup>
Flexural strength (ISO 178)	10N/mm <sup>2</sup>
Dynamic elastic modulus (ASTM C597-83)	18000N/mm <sup>2</sup>
Adhesive strength to concrete (BS 6319 : Part 4)	concrete failure
Co-efficient of thermal expansion (ASTM C531 Part 4.05)	2.4 x 10 <sup>-6</sup> °C <sup>-1</sup>
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

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

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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 SA 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/m<sup>2</sup>. Ucrete<sup>®</sup>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<sup>®</sup>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 PrimerTC and Ucrete<sup>®</sup>WR are given in the Ucrete<sup>®</sup> 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/m <sup>2</sup>
6mm	12-13kg/m <sup>2</sup>

Not including cove radius. Coverage is influenced by substrate roughness, porosity and temperature.

## Chemical resistance

Ucrete<sup>®</sup>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 SA.

## 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.



The Chemical Company

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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 readily available and the suppliers are able to offer advice on appropriate cleaning regimes. Consult your specialist applicator or BASF Construction Chemicals SA office for advice.

## Storage

Store under cover, out of direct sunlight and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

## 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 product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

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Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

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