

UCRETE[®] WR

Heavy Duty Polyurethane concrete system for vertical surfaces

DESCRIPTION

UCRETE WR is a single layer, seamless, solvent-free, polyurethane system for vertical surfaces with a textured matt finish. It withstands abrasive wear and a wide spectrum of chemicals.

UCRETE WR is a three-component trowel applied coving mortar applied in layers of 3 to 9mm.

UCRETE WR should always be applied on primed, UCRETE GC Primer, solvent free, two components tack primer.

It is fully complementary to all **UCRETE** Flooring Systems.

RECOMMENDED FOR

Conditions requiring the maximum of chemical resistance, health and safety and protection of surfaces subject to impact and hot /cold liquid drainage.

Specific applications include:

- coving
- plinths and machine/plant bases
- sump and drain linings
- bunds and bund linings

In all applications where **UCRETE** Flooring Systems are used.

FEATURES AND BENEFITS

"**HACCP Accredited** Ucrete products have been accredited for use in facilities covered by HACCP accreditation."

Ucrete WR has approval for use as flooring for HACCP accredited facilities.



Expert applicatio

Installed only by trained and approved specialist contractors

Fast application/ rapid access

Can be applied to 6 day-old-concrete/2 day-old-polymer screed.

Short curing time and 8 hour access to foot traffic; 20 hours for vehicles.

Hygienic/safe

Slip resistant; non-tainting, non-dusting, monolithic (minimum joints), easy to maintain, microbiologically inert.

Durable/long life

Wide chemical resistance, wear and impact resistant, resists temperatures up to 120°C; 25 years of international use.

Prepacked

Preweighed / prepacked for immediate use; batch-to-batch colour matched for consistency.

TYPICAL PERFORMANCE DATA

(Test data - 28 days @ 20°C)

Densisty (BS6319 :Part 5)	: 1,810 kg/m ³
Compressive Strength (BS6319:Part 2)	: 36N/mm ²
Tensile Strength (ISO R527)	: 4.3 N/mm ²
Modulus in compression (BS 6319 : Part 6)	2,750
Flexural Strength (ISO178)	: 9.2 N/mm ²
Concrete Adhesion (BS6319:Part 4)	: concrete fails
Coeff.Thermal Expansion (ASTM C531)	: 2.4x10 ⁻⁵ °C ⁻¹
Water absorption (CP.BM 2/67/2)	: 0 ml

PROPERTIES

Colours	Yellow
	: Cream
	: Orange
	: Red
	: Green
	: Grey
Thickness	: 3 mm to 9 mm

At 3mm, a maximum service temperature of 60°C should be observed. This rises to 120°C at a thickness of 9mm. Whilst UCRETE industrial flooring systems provide excellent chemical resistance, as in all corrosive situations a full analysis of operation and exposure conditions is required, followed by reference to chemical resistance data to ensure product suitability.

APPLICATION

Surface Preparation

Concrete shall be clean, structurally sound and free from foreign materials, contaminants, oily products and other debris. Concrete surfaces shall be 'visibly dry' with no standing water. The minimum tensile (pull-off) strength shall be 1.5N/mm² and concrete shall have cured for at least 5 days. Concrete substrates shall incorporate a continuous waterproofing membrane.

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Concrete design shall allow provisions for movement joints, as required. In addition, provision shall be made for induced joints to allow any shrinkage of the concrete to occur along defined planes.

All laitance shall be removed. All imperfections such as holes and cracks shall be repaired and leveled with the mean level of the surface. For repairing surface unevenness, EMACO Concrete Repair Systems shall be used.

The whole surface shall be enclosed or impact shot blasted, surface planed, ground or high-pressure water jetted. All high spots shall be removed.

Priming

The initial layer of **UCRETE WR** shall be applied to a tacky coat of **UCRETE TC Primer**. Subsequent layers are applied direct to re-primer surface

Area of **UCRETE GC Primer** left uncoated for more than 48 hours should be mechanically prepared for being primed again. Do not use **UCRETE GC Primer** on substrate below 8°C.

Placing

UCRETE WR shall be mixed and applied only by specialist flooring contractors who have been trained in the correct application procedures.

Sealing

Appearance is enhanced by brushing the uncured surfaces with a solvent-dampened brush or coating with a clear or pigmented polyurethane sealer.

CURING

At 30°C, foot traffic access in 8 hours; vehicular traffic in 16 hours. At 20°C, foot traffic access in 12 hours; vehicular traffic in 24 hours. Full traffic and chemical resistance in 28 days.

CLEANING

Regular cleaning, dry or wet mechanical scrubbing, or hot flushing with detergents or detergent / sterilant products will enhance the floor's appearance and reduce soiling tendencies. Direct steam cleaning is suitable for surfaces applied at more than 8-mm thickness.

ESTIMATING DATA

Coverage is influenced by substrate roughness, porosity and temperature, but allowing for normal wastage factors will be approximately

UCRETE WR – 1.8 to 2.0 kg/m²/mm thickness

UCRETE GC Primer – 0.25 to 0.33 kg/m²

PACKAGING

UCRETE WR & **UCRETE GC Primer** and **UCRETE TC Primer** are supplied in units for immediate use, consisting of:

UCRETE WR Part 1: 1.06 kg

UCRETE WR Part 2: 1.06 kg

UCRETE WR Part 3: 11.75 kg

UCRETE GC Primer Part 1 : 1.72 kg

UCRETE GC Primer Part 2 : 0.88 kg

SHELF LIFE

UCRETE WR can be kept for 12 months from date of manufacture, in original unopened packaging, if stored under cover and above ground level at 30°C or less, avoiding exposure to direct sunlight.

UCRETE WR Part 1 must not be allowed to freeze.

PRECAUTIONS

Material Safety Data (MSDS) for each component of **UCRETE WR** are available. Gloves and eye protection shall be worn during mixing and application.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

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