

# THIS METHOD STATEMENT COVERS THE SURFACE PREPARATION, MIXING & APPLICATION OF **UCRETE RG (4mm–6mm–9mm)**

## METHOD STATEMENT: UCRETE RG (4mm-6mm-9mm)

# 1. PREPARATION:

- 1.1. At the time of installation of the **UCRETE RG** the substrate concrete should have a minimum tensile strength of 1.5 MPa, be more than 7 days old and the surface should be dry.
- 1.2. Surface laitance must be removed by mechanical action; suitable equipment includes recycled shot blasting equipment (e.g. Blastrac), concrete planers (e.g. Von-arx) and diamond grinding (for edge work eDP).
- 1.3. Anchor Grooves/ Termination grooves (see below) to be cut into the skirting substrate and vertical surfaces where not already present.

# NB: \*Refer to Master Builders Solutions detailed SkeDPhes for Anchor Grooves and Termination grooves for coved skirtings and vertical applications.





## 2. PRIOR TO INSTALLATION:

## 2.1. Storage

Materials should be stored under cover, out of direct sunlight. **Part 3** must be raised off the floor and kept dry. **Part 1** and **Part 2** and the **Sachet of Liquid Polykit Pigment** must be protected from temperature extremes.

Ideal storage temperature 15°C - 25°C.

The substrate concrete should be installed to the tolerances required of the finished floor. Any repairs to the substrate or correction of levels eDP should be carried out in good time prior to the installation of the **UCRETE RG**.

### 3. INSTALLATION OF THE UCRETE RG:

3.1. Ideal application temperatures are 15°C to 25°C. The mixed **UCRETE RG** should be within 15°C to 25°C range during installation. Once laid Ucrete will cure very effectively even at low temperatures.

Applications should not proceed if the temperature is expected to be below the dew point at any time during the operation.

# 4. APPLICATION OF UCRETE PRIMER RG:

- 4.1. Pour the contents of the Part 1 (White Cap) (0.56 kg) and the Part 2 (Blue Cap) (0.57 kg) into a 2.5 litre polyethylene mixing pail and mix for 30 seconds with a slow speed drill and spiral paddle (300 350 rpm) to create a uniform dispersion.
- 4.2. Add the **Part 3 Bag (0.3 kg)** and continue mixing for a further 1-2 minutes until the mix becomes homogenous.

NB: The working time of the mix is approximately 10 minutes.

The ambient temperature should be  $5^{\circ}$ C -  $30^{\circ}$ C and the material temperature  $16^{\circ}$ C -  $22^{\circ}$ C.

The open time of UCRETE PRIMER RG is 60 minutes at 20°C and will be less at higher temperatures. Do not apply UCRETE RG after this time.

4.3. The mixed material should be applied to wet out the prepared substrate using a paint brush or roller at the below coverage rate to ensure there is no excess material on the surface otherwise the **Ucrete RG** will slump. Care should be taken to ensure complete coverage and to avoid ponding, particularly on adjacent horizontal surfaces.

(a) 0.15 kg – 0.2 kg/m<sup>2</sup> (Approx. 7m<sup>2</sup> – 9m<sup>2</sup> per 1.43 kg unit)

- 4.4. UCRETE RG should be applied immediately after the application of the Ucrete PRIMER RG.
- 4.5. Ucrete PRIMER RG should remain wet throughout the application of the UCRETE RG.
- 4.6. If, for any reason, work stops and the **Ucrete PRIMER RG** becomes hard, this area should be left overnight to cure, abraded and a second coat of **Ucrete PRIMER RG** applied before resuming the application of the **UCRETE RG** as normal.



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# 5. APPLICATION OF UCRETE RG:

- 5.1. **UCRETE RG** consists of four components.
- 5.2. Mix the UCRETE RG components Part 1 (Yellow Cap) (0.71 kg) and Part 2 (Blue Cap) (1.09 kg) and the Sachet of Liquid Polykit Pigment (0.5 kg) together for 1 minute with a slow speed drill and paddle (300 350 rpm) to create a uniform dispersion. The mixed material should then be transferred into a suitable mixing container and then gradually add the Part 3 (9.50 kg) (aggregates whilst mixing continues for typically 3 4 minutes. Only whole units are to be mixed. Nothing is to be added or left out.
- 5.3. **DO NOT** mix more than one unit at a time. Transport and discharge the mixed material on to the substrate as quickly as possible.
- 5.4. Apply **UCRETE RG** by trowel, a normal application being in layers of 3mm to 6mm at the following coverage rates.
  - \* (a) 4 mm: 8.5 kg/m<sup>2</sup>
  - \* (b) 6 mm: 12.5 kg/m<sup>2</sup>
  - \* (c) 9 mm: 19 kg/m<sup>2</sup>
  - NB: \* These figures do not take into account the cove radius and do not include any wastage.

Special coving trowels are available and should be used (15mm / 30mm / 50mm Radius)

- 5.5. Allow overnight curing between layers and apply a coat of **Ucrete PRIMER RG** before adding subsequent layers of **UCRETE RG**.
- 5.6. Apply subsequent layers to build up the application to the specified thickness.

DO NOT apply when atmospheric condensation is occurring or likely to occur before full cure is attained, i.e., when the dew point is reached or when the ambient or substrate temperature is within 3°C of the dew point. Normally, full cure is reached after 24 hours, but under very cold or very dry conditions this may be extended to 48 hours.

- 6. APPLICATION OF UCRETE DP TOPCOAT Recommended to provide a more consistent colour to the coving due to the differing surface texture between the Ucrete self-smoothing flooring system and the hand troweled coving material.
- 6.1. NOTE: Prior to applying the UCRETE DP TOPCOAT, lightly abrade the joint between the UCRETE RG coving and the flooring application, solvent wipe and fill any valleys with MasterTop 2200. Allow to cure and lightly abrade. Before applying the UCRETE DP TOPCOAT apply masking tape a minimum of 5mm over the flooring application. Once the UCRETE DP TOPCOAT has been applied, remove tape immediately.
- 6.2. UCRETE DP Topcoat is a four-component pigmented topcoat.
- 6.3. Mix Part 1 (Yellow Cap) and Part 2 (Blue Cap) together with the Liquid Polykit Pigment Sachet for 30 seconds using a paint stirrer in a slow speed electric drill and then add Part 3 and mix for a further 1 3 minutes depending upon temperature and mixer efficiency.
- 6.4. DO NOT mix more than one unit at a time. The pot life of the **UCRETE DP TOPCOAT** is relatively short, mixing more than one unit except on very large open areas will make keeping a wet edge difficult. This will result in colour and gloss variation in the finished floor. Single mixes, mixed and applied quickly will produce the most uniform appearance.



6.5. Pour all of the mixed **UCRETE DP Topcoat** on to the floor immediately after mixing and spread with a soft foam squeegee and back roll with a medium pile roller to remove excess and to produce a uniform texture and appearance at the following coverage rate.

#### (a) UCRETE DP TOPCOAT: 0.4 - 0.6 kg/m<sup>2</sup>

#### NB: Above coverage rate does not include any wastage.

- 6.6. The purpose of the roller is not to spread the **UCRETE DP TOPCOAT** but to remove excess material from the valleys between the aggregate. The roller must be kept free excess topcoat regularly, either onto the basecoat or cardboard.
- 6.7. In order to reduce the possibility of colour and gloss variation, do not roll more than 5cm into the previous mix of **UCRETE DP TOPCOAT**.

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- 6.8. DO NOT apply when atmospheric condensation is occurring or likely to occur before full cure is attained, i.e., when the dew point is reached or when the ambient or substrate temperature is within 3°C of the dew point. Normally full cure is reached after 24 hours, but under very cold or very dry conditions this may be extended to 48 hours.
- 6.9. Expansion Joints in the **UCRETE** are best produced by saw cutting the material with a double-bladed joint cutter after application and cure.
- 6.10. **MasterSeal CR 460** Joint Sealant to be applied as per Master Builders Solutions Method Statement.

#### 7. POST INSTALLATION:

- 7.1. No Building Trades or traffic to be allowed on to the freshly laid **UCRETE** for at least 16 hours at 15°C to 20°C, longer at lower temperatures.
- 7.2. It is normal for the installation of joints to take place and no other trades should have access until the sealant has cured sufficiently to resist damage.
- 7.3. If the floor is to be handed to the client in a pristine condition, then it must be protected from other trades. Full protection of the whole floor by temporary covers consisting of polyethylene sheeting overlaid with hardboard, or plywood depending on the trades and traffic to have access, with joints taped and fixed. Ensure the floor is completely tack free at the time of covering, typically after 24 hours at 15°C to 20°C.



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#### NOTE:

The above guide provides a summary of the installation of **UCRETE RG** and should be read in conjunction with our technical data sheets.

The **UCRETE** Applicator is a specialist in the installation of **UCRETE** floors and is to install the floor in accordance with our current guidelines and best site practice.

UCRETE INDUSTRIAL FLOORING is only available from: Master Builders Solutions Construction Chemicals LLC, P O Box 37127, Dubai, UAE

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