

# GENERIC APPLICATION SPECIFICATION FOR THE APPLICATION OF ULTRASEAL CEMENTITIOUS



## SUBSTRATE: CONCRETE

### 1.0 Weather Conditions:

No coating shall be done when relative humidity exceeds 85%. The surface temperature must be greater than 3° C above dew point. The ambient temperature must be greater than 10° C. Environmental conditions shall be checked every 2 hours or if the weather condition changes.

### 2.0 Pre-preparations:

- Visual inspection must be done on concrete surface to check for porosity, exposed aggregate, protrusions, cracks, physical damage or contaminants.
- Concrete surfaces must preferably be cured for a minimum of 28 days.

### 2.1 Pre-cleaning:

- Vacuum cleaning or air blast cleaning may be used to remove all loose dirt, dust and debris in accordance with ASTM D4258.
- If required, detergent water cleaning and steam cleaning may be used to remove oils and grease from the concrete.

### 3.0 Surface Preparation:

The preparation of concrete using certain mechanical methods:

- Hand or power tool cleaning
- Scarifying
- Abrasive cleaning
- Portable centrifugal blast cleaning
- High Pressure water cleaning

All existing coating and laitance must be removed.

### 4.0 Cleanliness of Surface Prior to Application:

- No significant visual dust.
- Newly abraded profile is cleaned to a dust and debris ISO 8502-3 max rating 2.

### 5.0 Application of Ultraseal Cementitious Waterproofing Part A & B

#### Method of application:

- Brush
- Roller
- Trowel (Preferred)

#### Mix Ratio:

- Part A 10 Lt Polymer
- Part B 5 Kg Powder

#### Mixing:

Mix with a slow mechanical mixer. Pour powder slowly into liquid whilst continuously mixing. Continue to mix for 3 minutes until uniform and lump free. Typical Dry Film Thickness: 1.5 – 3 mm

#### Thinning:

Maximum 500 ml water may be added to improve consistency. Wet the concrete surface slightly without forming puddles prior to application

**Theoretical concentration/m<sup>2</sup>: ± 4 Kg (excl wastage)**

#### Overcoating time:

- Min: 2 – 6 hours (Must be touch dry)
- Max: 48 hours @ 25° C

**Pot life: 45 minutes at 25° C**

**NB:** Tiling can be done directly on top of Ultraseal Cementitious waterproofing.

### 7.0 Inspection and Test Reports:

- Daily reports for humidity, temperature, dew point shall be recorded.
- Dust and debris reports.
- Dry film thickness measurements (SSPC – PA9) Ultrasonic gauge.
- Moisture content reports.

### 8.0 Technical Data Sheets and Material Safety Data Sheets:

The following Technical Data Sheets and Material Safety Data Sheets are provided with the specification:

- Ultraseal Cementitious

Manufactured by NUI – Member of the RIGIFoam Group

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