



## Technical Data Sheet

### Description

**Tek-Tile GCU** is a single component cementitious waterproof tile adhesive based on a high polymer system with superior adhesion, high strength, and it has waterproof properties for interior & exterior application. It can be applied on a variety of substrates.

### Advantages

- Single component
- Waterproof
- High bond strength
- High polymer content
- High flexibility
- Non-sagging
- For both vertical and horizontal applications

### Uses

In tiling situations where high adhesion and waterproofing is required. It is typically suitable for use in all wet areas, like kitchens, balcony, bath areas and toilets.

### Suitable substrates

- Concrete
- Ceramic tiles
- Terrazzo
- Marble
- Terracotta
- Natural stones
- Porcelain

### Physical Properties\*

| Property  | Typical Results                            |
|---|--|
| <b>Compressive strength</b>                         | >20 MPa – at 28 days                       |
| <b>Flexural Strength</b>                            | >3 MPa – at 28 days                        |
| <b>Bond strength</b>                                | Greater than cohesive strength of concrete |
| *The above properties are average laboratory values |  |

### Packing

**Tek-Tile GCU** is available in 20 kg bags

### Available Color

Grey & White

### Theoretical Coverage

| Notch trowel size in mm | Amount in kg/m <sup>2</sup> |
|-------------------------|-----------------------------|
| 6 mm                    | 3.5 to 4.0                  |

### Application properties

|   |   |
|---|---|
| <b>Mixing ratio</b>                     | Add 4.5 to 5.5 lt. of clean water for 20 kg bag |
| <b>Application time</b>                 | Approx. 15 minutes                              |
| <b>Open time</b>                        | Approx. 90 minutes                              |
| <b>Load-bearing, ready for grouting</b> | After 24 hours                                  |

### Shelf Life

12 months when stored in factory packed unopened bag, stored in a cool dry and elevated place away from direct sunlight.

### Installation Guidelines

Spraytek provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

### Surface Preparation

Surface preparation is important. All surfaces should be dry, clean, and free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding.

### Mixing

**Tek-Tile GCU** is supplied as a single component cementitious product. Pour 3.5 to 4.0 liters of clean water into suitable clean container and mix with low speed drill (400-800 rpm) with mixing paddle. Mix approximately for 3-5 minutes to achieve lump-free right smooth consistency.

## Application

**Tek-Tile GCU** is applied in one coat at a thickness of 2 to 8 mm. To achieve a uniform thickness, the mortar should be spread with a notch trowel. Do not spread more than 0.5 m<sup>2</sup> at a time. Spreading larger areas may result in the mortar drying out before tiles can be stuck to the adhesive, resulting in adhesion failure. The actual open time will vary according to the ambient conditions.

Leave a minimum 1-2mm gap around every tile. Spread the adhesive onto the substrate using either a 6 mm x 6 mm notched trowel for wall tiling or a 12 mm x 12 mm notched trowel for floor tiling. The choice of trowel should be governed by the size of tile, the depth of knobs; grooves or ridges on the back of the tile and the evenness of the substrate. A 6 mm x 6 mm notched trowel is recommended for mosaic tiles.

A thicker bed of adhesive allows for better contact onto the substrate as well as compensating for unevenness.

## Joints

Ensure that movement and perimeter joints are incorporated as per the standard practice.

## Precautions

Do not re-temper the mix.

Ensure the temperature of the mortar does not exceed 35°C at the time of mixing.

Do not mix by hand.

Do not part mix, use full pack.

Do not expose to running water until the product is fully cured.

## Technical Support

Spraytek offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

## Health & Safety

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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|-------------|-------------------|
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