

---

# Technical Specification Document

## Cementitious Decorative Micro Concrete – Concrete Concepts Mc

---

### 1. Product Description

**Concrete Concepts Mc** is a high-performance, polymer-modified cementitious micro-topping designed for concrete resurfacing applications. Applied at a thickness of 2–3 mm, it offers a seamless, durable, and visually appealing finish while preserving the aesthetic of concrete. It is available with white or grey cement base and is tintable to match custom color and texture requirements. Final finish includes grinding and polishing for a dense, elegant surface.

---

### 2. Features and Benefits

- Seamless and decorative concrete finish
  - High durability with resistance to wear and tear
  - Suitable for indoor and outdoor applications
  - Can be pigmented for desired aesthetics
  - Can be applied over existing substrates (concrete, tile, wood)
  - Excellent bonding and workability
  - Compatible with PU-based top sealers (matte or gloss)
  - Stain-resistant and easy to maintain
- 

### 3. Areas of Application

- **Residential Spaces:** Kitchens, living rooms, bathrooms (walls & floors), villas, HNI homes
  - **Commercial Establishments:** Restaurants, hotels, retail stores, offices, lobbies
  - **Outdoor Applications:** Pool decks, patios, podiums, water features, fountains, sit-outs
  - **Refurbishment:** Re-surfacing honeycombs and porous concrete without removal of existing layers
- 

### 4. Application Procedure

#### 4.1 Surface Preparation

- Ensure tiles **minimum 8 days old**
- Surface must be **clean, dry, and roughened** (free from oil, dirt, debris, paint, etc.)
- Mechanically grind the Surface
- Final cleaning

---

## 4.2 Mixing Instructions

### Base (Concrete Concepts Mc – 2 Base coat)

- Mix **6 kg powder** with **2 L liquid polymer**
- Mix thoroughly for **minimum 3 minutes** until homogenous
- Adjust with **small quantity of water** (if required) to achieve proper consistency
- Maintain material temperature between **16°C to 32°C**
- Use drill with paddle or mortar mixer for larger volumes

### Top Coat (Concrete Concepts Mc – 2 Top coat)

- Mix **6 kg powder** with **3 L liquid polymer** (ratio 2:1)
- Similar mixing process as base coat
- Use immediately after mixing

---

## 4.3 Placement & Finishing

1. **Base Coat Application:**
  - Pour and trowel evenly with smooth strokes (avoid scratches)
  - Allow to **cure overnight**
  - Sand with fine grit, apply primer, and repeat base coat (if needed)
2. **Top Coat Application:**
  - Apply as above using appropriate mix ratio
  - Allow to cure **overnight**
  - Sand sequentially with **80, 120, 220 grid** papers for desired finish
3. **Sealing:**
  - Apply **2 coats** of **Concrete Concepts Sealer** (matte )
  - Ensure surface is clean and dust-free before sealer application

---

## 5. Technical Data (Typical)

Property	Specification
Application Thickness	2 – 3 mm
Pot Life	~30 minutes (depending on temperature)
Full Cure Time	24 – 48 hours
Bond Strength	High (Polymer modified)
Substrate Compatibility	Concrete, tile, wood
Finish Options	Smooth, textured, polished
Final Sealer	PU-based (matte)

---

## 6. Packaging & Storage

- **Component A (Powder):** 30 kg bucket

- **Component B (Powder):** 20 kg bag
  - **Component C (Liquid polymer):** 2–3 L bottle (depending on coat)
  - Store in **cool, dry place** away from direct sunlight
  - Shelf life: **12 months** in original sealed packaging
- 

## 7. Safety & Handling

- Use protective gear (gloves, masks, goggles) during mixing and application
  - Avoid inhalation of dust and skin contact with wet material
  - Refer to MSDS for complete safety guidance
-