

## TECHNICAL DATA SHEET

### BC PUcrete TF

**Slip-Resistant, Flow-Applied, Heavy-Duty Polyurethane 6 mm Floor Screed**

#### 1. PRODUCT DESCRIPTION

BC PUcrete TF is a 6 mm flow-applied, lightly textured, heavy-duty polyurethane resin floor screed designed for rapid installation in fast-track new construction and refurbishment projects. It is water-based polyurethane cement hybrid. It delivers long-lasting performance in the most demanding environments.

#### 2. APPLICATION AREAS

BC PUcrete TF is designed as a durable wearing screed for industrial flooring systems in:

- Food & Beverage Processing Plants
- Pharmaceutical Production Areas
- Chemical & Process Industries
- Manufacturing Plants and Workshops

#### 3. PRODUCT FEATURES

- Excellent resistance to mechanical and chemical stress
- Fast application and curing for rapid project turnaround
- Tolerates high moisture substrates and early-age concrete
- Impermeable to liquids and highly durable
- Low VOC emissions and non-tainting after mixing
- Does not support bacterial or fungal growth
- Thermal expansion properties similar to concrete
- Withstands temperature fluctuations from -25°C to +80°C
- Suitable for steam-cleaning and freezer environments



#### 4: TECHNICAL DATA

Property	Value	Test Method
Compressive Strength	48 – 54 N/mm <sup>2</sup> (28 days)	EN 13892-2
Flexural Strength	~14 N/mm <sup>2</sup> (28 days)	EN 13892-2
Tensile Strength	~6 MPa (28 days)	BS 6319-7
Adhesion to Concrete	Concrete Failure	EN 1542
Modulus of Elasticity	~3000 MPa	BS 6319-6
Coefficient of Thermal Expansion	$4.1 \times 10^{-5} \text{ }^{\circ}\text{C}^{-1}$	ASTM C531
Fire Resistance	Class Bfl-s1	EN 13501-1
Chemical Resistance	Excellent (consult Technical Team)	-
Slip Resistance (Wet)	PTV 40–45 (Slider 96)	EN 13036-4
Slip Resistance (Flow)	R10	DIN 51130
Service Temperature Range	-25°C to +80°C	-
Density (Mixed Product):	1.97 kg/L	(EN ISO 2811-1)

#### 5. APPLICATION INFORMATION

Layer	Product	Consumption
Primer Slurry	BC PUcrete PS	~1.6 kg/m <sup>2</sup> (~1 mm)
Scratch Coat (Optional)	BC PUcrete SF	~2.0 kg/m <sup>2</sup> (~1 mm)
Wearing Layer	BC PUcrete TF	10 – 11 kg/m <sup>2</sup> (5 mm)



*Consumption rates are theoretical and must be verified on-site based on actual conditions.*

### Application Conditions

- Material Temp: +15°C to +25°C
- Ambient Temp: +12°C to +25°C
- Substrate Temp: +12°C to +25°C

### Curing Time (Traffic Return)

Temperature	Light Traffic
+8°C	< 24 hours

### SYSTEM STRUCTURE

Layer	Product	Thickness
Primer	BC PUcrete PS	~1 mm
Wearing Layer	BC PUcrete TF	~6 mm

## 6. APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

#### ■ Important:

Incorrect assessment or treatment of substrate cracks may lead to reduced service life and reflective cracking in the flooring system.

### Joint and Crack Treatment

- All construction joints and existing static cracks in the substrate must be properly pre-treated before the application of the full flooring system.
- Use suitable BC repair resins (such as BC FLOOR resins) for joint and crack filling, ensuring a stable substrate surface.

### Substrate Conditions

- BC PUcrete TF can be applied on damp or green concrete provided there is no standing water on the surface.
- It is essential to allow at least 3 days for the concrete to undergo initial shrinkage to minimize the risk of shrinkage cracks appearing in the finished flooring.



### The substrate must be:

- Structurally sound, with a minimum compressive strength of 30 N/mm<sup>2</sup>.
- Having a minimum tensile adhesion strength of 1.5 N/mm<sup>2</sup>.
- Clean, free from dust, dirt, oil, grease, surface treatments, loose materials, laitance, or any contaminants that may impair adhesion.

## 7. IMPORTANT NOTES

- Do not apply to cracked, unsound, or moisture-reactive cementitious substrates.
- Protect fresh application from condensation, water, and damp for at least 24 hours.

## 8. CLEANING & MAINTENANCE

Clean tools with BC Thinner C or suitable solvent immediately after use. Hardened product must be removed mechanically.

## 9. HEALTH, SAFETY & ENVIRONMENT

- Refer to the latest Safety Data Sheet (SDS) prior to use.
- Ensure adequate ventilation in confined spaces.

## DISCLAIMER

The information provided in this technical data sheet is based on our current knowledge and experience. It is the responsibility of the user to verify the product's suitability for specific applications under actual site conditions.

