

# TexCrete Datasheet

**November 2017**

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A thixotropic, quick setting, enhanced fibre-cement blend. Mixed with a solution of FlexBond for the saturation and impregnation of CemForce to form a reinforced product that can be cast into latex or silicone moulds. Produces castings of about 4 to 8 mm in thickness.

**Technical Data**

<b>Type</b>	A thixotropic, quick setting, enhanced fibre cement blend
<b>Colour</b>	See website: <a href="http://www.cemcrete.co.za">www.cemcrete.co.za</a>
<b>Pot life</b>	45 minutes
<b>Working time after mixing</b>	30 minutes
<b>Demoulding time</b>	± 12 hours depending on relative humidity
<b>Abrasive resistance</b>	Excellent, once fully cured
<b>Mixing water temperature</b>	15°C to 25°C
<b>Application temperature (ambient)</b>	6°C to 25°C
<b>Substrate temperature</b>	6°C to 25°C
<b>Min application thickness</b>	3mm to 5mm for every layer of CemForce or fibre mesh
<b>Max application thickness</b>	Layered at 30 minutes intervals to desired thickness
<b>Density</b>	1.5kg/ litre
<b>Protection during application</b>	Wind and sun barriers (no direct contact with material)

**Purpose**

For the moulding of lightweight small and large intricate castings where fine surface definition is required.

**Benefits**

- Ideal for castings where definition is required
- Rapid setting
- Gains early strength
- Easy to seal or colour

**Limitations**

Will not stick to plastic, rubber or gypsum plaster. The temperature of the FlexBond/water mixing liquid will have an effect on setting time.

**Applications**

Rock features, pots, ponds, ornaments, small castings, etc. For the manufacture of lightweight pots, door inlays, table tops, ceiling panels, light-fittings, inlays for cupboard doors and furniture, etc. Also for the manufacture of light-weight rock panels that can be pre-made and then fitted on-site to create rock features, ponds, etc.

**Colours**

Available in light colours like Ivory and Straw. Enhanced using CreteStain once dry. See the CreteStain datasheet for colour range.

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## Site Work

### Storage

Can be stored in a dry cool shed away from direct sunlight and off the floor on wooden slats for 6 months after date of invoice.

### Weather

Do not apply if freezing conditions are expected within 24 hours.

### Surface preparation

Mould surfaces should be clean. Depending on the mould material, the surface can, if necessary, be lightly oiled or damped down with clean water.

### Mixing

Dilute one volume FlexBond with five volumes clean water and use this solution to mix **TexCrete** to the required consistency.

NOTE: The temperature of the FlexBond/water mixing liquid will have an impact on setting time. If the mixing liquid is too warm, **TexCrete** could flash set. Care should be taken when **TexCrete** is applied by spray or pump.

### Application

The bigger the article to be moulded, the more reinforcing required. Although **TexCrete** is heavily fibred, these fibres are not for strength of article but rather to prevent surface cracking or crazing.

Can be applied by brush or low-pressure spray. Apply a thick layer directly onto mould surface. Immediately embed a layer of CemForce or Glass Fibre Mesh into the **TexCrete** layer. Apply further layers within 30 minutes of previous layer. Number of layers of membrane would depend on thickness and strength required.

Allow to harden sufficiently before attempting to de-mould. Time depends entirely on mixing and temperature, but would typically be approximately 12 hours. **TexCrete** can also be applied onto a layer of CemForce to create positive work, instead of casting into moulds.

### Curing

While **TexCrete** attains very high early set for de-moulding, overall strength is only achieved by curing by wetting with clean water. First allow work to completely dry out before immersing or wetting down with water. The longer this second wetting is carried out, the better the strengths achieved.

### Finishing

There are a variety of ways to finish completed castings. Leave as is or stain using Cemcrete's CreteStain. A CreteStain datasheet is available on [www.cemcrete.co.za](http://www.cemcrete.co.za).

### Sealing

Final surface can be treated by sealing with a dilution of one volume raw linseed oil and two volumes turpentine. When dry, the surface can be polished using a good quality proprietary floor polish. This sealing method is suitable only for articles that will be kept indoors. Surfaces can also be sealed using Cemcrete's Colour Hardener Sealer in accordance with its datasheet. These articles would be suitable for outdoor use.

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## Safety

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The use of protective clothing, goggles and dust masks is recommended even though **TexCrete** is non-toxic.

- Skin contact: Wash thoroughly with soap and water
- Eye contact: Flush immediately with water for 10 - 15 minutes and contact a physician
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician
- Not for internal consumption

## Coverage

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20kg of **TexCrete** will cover approximately 0.75m<sup>2</sup> when applied 5mm thick.

## Packaging

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<b>TexCrete</b>	20kg bags
FlexBond	1, 5 and 20 litre drums
CemForce	1m width with any length
Glass Fibre Mesh	1m widths up to 50m lengths

## Manufacturer's Warranty

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Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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