

# SculptCrete Datasheet

August 2025

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A scientifically formulated enhanced fibre cement blend. Contains no hazardous materials and is suitable for interior or exterior use. Has superior workability and provides a smooth, weather resistant finish that can be carved when biscuit hard. Will allow very fine, detailed carving. Also suitable for building up three dimensional details.

## Technical Data

Type	Fibre cement sculpting plaster
Colour	Grey
Working time after mixing	1 hour
Initial set	1.5 hours
Abrasive resistant	Fair
Mixing water temperature	10°C to 25°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Min application thickness	8mm per layer
Max application thickness	20mm per layer
Density	Dry: 1.3kg / litre Wet: 1.7kg / litre Cured: 1.3kg / litre
Protection barriers required	Wind and sun barriers (no contact with product)

## Purpose

For the creation of art panels where fine surface definition is required, minimum panel thickness to be 20mm. The **SculptCrete** can be applied in layers, with each layer not exceeding 20mm. Can be carved, scraped and sculpted.

## Benefits

- Non-toxic
- Slower setting times compared to conventional plaster thus allowing sufficient time for fine detailed work
- Can be layered

## Applications

Individually carved and decorated panels which can be used as is or as a master from which latex or silicone moulds can be made. Used over a wire or metal armature to create sculptures and large art pieces. Suitable for use as a base for mosaic, glass, etc. inlays.

## Colours

Available in grey only. Enhanced using CreteStain once fully cured. Can also be pigmented using ColourCem (up to 5% by weight) while still in powder form. Some colours in the ColourCem range may have a minimal effect on the final colour of the mix. Additionally, using more than 5% ColourCem by weight may reduce the setting time, which could impact the carving process. See the ColourCem and CreteStain brochure for respective colour ranges.

## Note

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

Cemcrete provides a comprehensive technical service based on over 4 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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## Site Work

### Storage

Can be stored in a dry shed off the floor on wooden slats for 3 months.

### Weather

Do not use if freezing conditions are expected within 8 hours. Temperature will have an effect on drying / curing time and should be considered when calculating how much carving time would be needed.

### Mixing

Dilute 1 part FlexBond with 4 parts clean water to create the mixing solution. Combine 1 part of this solution with 2 parts **SculptCrete** as a starting ratio. Mix to a smooth paste with no slump. Adjust the liquid content as needed to achieve the desired consistency, additional solution may be added if the mix is too stiff.

### Application

Flat panels can be cast onto CemLam to create a base. Can be applied by Speidel type pump or Putzmeister. When positive artwork is to be done on existing brick or plaster surfaces, preparation should be as for normal plastering to ensure proper bonding. **SculptCrete** can be applied in layers of 20mm at a time. Apply each coat while the previous coat is still damp. The surface should be roughened to ensure a proper bond. For added strength, use CemForce between layers.

### Curing

Cure all completed work by damping with clean water 3 times during the day on the day following application. It is a good idea to cover the article with plastic during this initial curing period. Fast drying will cause surface cracking.

### Sealing

Surfaces can be sealed using Cemcrete's Multipurpose Solvent-Based Sealer or Multipurpose Water-Based Sealer in accordance with its datasheet – suitable for interior and exterior use.

An alternative option would be to treat the surface with a proprietary wax only polish to enhance the more natural characteristics. Once dry, the surface can be heated using a blow-torch to melt the wax. This sealing method is suitable only for articles that will be kept indoors. **SculptCrete** can also be left as is, if a more natural raw look is desired.

### Safety

The use of protective clothing, goggles and dust masks is recommended even though **SculptCrete** 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

20kg of **SculptCrete** will cover approximately 0.8m<sup>2</sup> when applied 20mm thick.

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## Packaging

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Available in 20kg bags. Made to order. Minimum order quantity of 10 x 20kg bags.

## 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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