

SculptCrete Datasheet

February 2019

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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 panels with a minimum thickness of 20mm (which will be used to create art pieces) where fine surface definition is required. 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 one colour only. Enhanced using CreteStain once dry and cured. See the CreteStain datasheet for colour range. Can also be coloured using ColourCem. See the ColourCem datasheet for colour range.

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.

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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 one volume FlexBond with four volumes clean water and use this solution to mix **SculptCrete** to the required consistency. One volume of solution mixed with 2 volumes of **SculptCrete** is a good starting point. More or less liquid may be added, depending on the consistency required.

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.

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.

Finishing

There are a variety of ways to finish completed pieces. Leave as is or stain using Cemcrete's CreteStain. Can also be coloured using Cemcrete ColourCem.

Sealing

Final surface can be treated by applying a good quality proprietary floor polish. 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. Surfaces can also be sealed using Cemcrete's Colour Hardener Sealer or Concrete Sealer in accordance with its datasheet. These articles would be suitable for outdoor use.

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

40kg of **SculptCrete** will cover approximately 1.7m² when applied 20mm thick.

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Packaging

Available in 40kg bags.

Manufacturer's Warranty

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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