

Exposed Aggregate Datasheet

October 2022 Page 1 of 4

Exposed Aggregate mix is a thin decorative stone cementitious bound system.

Technical Data

Туре	Cementitious decorative aggregate coating
Colour	See website: www.cemcrete.co.za
Pot life	45 minutes
Working time	45 minutes
Initial set	1 hour
Touch dry	3 - 4 hours depending on weather
Mixing water temperature	10°C and 25°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Application thickness	8mm
Density	1.8kg/ litre
Protection during application	Use wind and sun barriers to prevent premature moisture loss

Purpose

To provide a decorative exposed stone finish for external floors such as patios, walkways, boma's and pool surrounds. This product is ideally suited for external residential and commercial applications for example al fresco areas of retail shops, restaurants and parks, etc. where minimum maintenance is required with a decorative finish. Not suitable for driveways or areas with vehicle traffic.

Benefits

- Durable
- · Aesthetically pleasing
- · Easy to clean and maintain
- · Abrasion and impact resistance

Limitations

- · During application ambient temperature must be higher than 5°C
- · Protect from freezing for at least 6 hours after application
- · The product must not be laid over existing expansion, control or isolation joints. These must be honored and followed through to the surface
- Existing cracks must be suitably repaired and structural cracks fixed at the source of the problem
- · Use only on surfaces that are sound, not friable, clean, and completely dry
- · Use sun and wind barriers to prevent rapid drying
- · All surface beds should have damp proof membrane. If there is no damp proof membrane present under the concrete base then precautions need to be taken to prevent rising damp from below. Please consult with Cemcrete's technical department on this matter.

Site Work

Storage

Can be stored up to 6 months after date of invoice when stored in a dry area, off the floor, in unopened original packaging.

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.



Exposed Aggregate Datasheet

October 2022 Page 2 of 4

Site preparation

Joints and cracks

If the application area is larger than 10m², it is advisable to create control joints to allow for expansion and movement of the new surface and to improve the ease of application. Existing joints and moving cracks must be used as the basis for laying out the control joints. If no existing joints or cracks are present a control joint should be made every 3 meters. Control joints should also be considered at 3m intervals in long narrow passages and across doorways.

Masking

Mask all areas where there is a risk of splashing and staining and where straight edges are required.

Surface preparation

New concrete surfaces

New concrete surfaces must be wood floated and fully cured for 28 days prior to application of Exposed Aggregate. The surface must be structurally sound, level, clean, dry and free from any curing agents, laitance and surface contamination such as dust, dirt, waxes, oils, old adhesives, grease, sealants, weak cement screeds etc. which may interfere with adhesion. All holes and damaged areas must be repaired prior to the application of Exposed Aggregate. It is suggested to first prime shallow holes with Concrete Primer prior to patching. For larger holes use a suitable repair mortar. Application over moving joints or cracks can result in cracking and delamination. Cemcrete's PrimerCote mixed with FlexBond (diluted 1:3 with water) to a stiff paste can be used to patch with. The surface, once repaired, must be primed with PrimerCote as per its datasheet. All construction, cold joints, structural joints and/or structural cracks which may be dynamic before and/or after the Exposed Aggregate application must be extended through to the surface of the Exposed Aggregate application in the form of voided joints. All voided joints including saw cuts should be filled with suitable joint filler where applicable.

Existing surfaces

Existing surfaces should preferably be ground with a grinder to remove surface residues and to expose the true condition of the substrate. A mechanical key similar to the profile of a wood floated surface is suitable for bonding purposes. Ensure that all cracks, holes and loose areas are properly repaired before application. Refer to new surface prep for detail on repairs. Once all repairs have been done, apply PrimerCote as per its datasheet prior to the application of the Exposed Aggregate. Note, all construction, cold joints, structural joints and/or structural cracks which may be dynamic before and/or after the Exposed Aggregate application must be extended through to the surface of the Exposed Aggregate application in the form of voided joints. All voided joints including saw cuts should be filled with suitable joint filler where applicable.

Application

Step 1: Prior to mixing, ensure all 8mm dividing strips are installed correctly. Working a single control joint area at a time, apply Cemcrete's PrimerCote in accordance with the manufacturer's instructions. Allow to dry overnight. The following day, prior to applying the Exposed Aggregate, apply a single coat of Concrete Primer. Once this is tacky apply the Exposed Aggregate.

Step 2: Add 2 to 2,4 litres of clean potable water to a 20kg bag of Exposed Aggregate. Mix thoroughly using a mechanical mixer, until a uniform consistency is achieved. Apply the mixed Exposed Aggregate to a thickness of 8mm with a suitable steel trowel. Ensure the Exposed Aggregate is floated level with the guide strips using a straight edge and then steel floated smooth. Only mix enough material to cover each panel floated flush to the guide strips. Avoid dry joints by completing the application within the entire control joint panel in a continuous operation. Repeat steps 1 & 2 until all areas are completed. Note, no panels should be left partially filled as cracks will appear when the new Exposed Aggregate is applied at a later stage.

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.

Johannesburg Head Office 8 Telford Street Industria 011 474 2415

Johannesburg Showroom 227 Jan Smuts Avenue Parktown North 011 447 3149

Centurion Showroom & Warehouse 15 Coachmen's Park 26 Jakaranda Street, Centurion 012 653 6808

Cape Town Showroom & Warehouse Eagle Park, cnr Bosmansdam & Omuramba Roads, Montague Gardens 021 555 1034



Exposed Aggregate Datasheet

October 2022 Page 3 of 4

Step 3: Application of the retarder

The retarder must be shaken before use and frequently agitated during use. Spraying is preferably done using an airless spray gun with a medium tip nozzle between 1,2mm and 2,5mm. The Exposed Aggregate must have no bleed water on it prior to the application of the retarder. Should there be any glistening bleed water present, wait between 30 to 60 minutes for the moisture to subside; in cold weather this may take longer (please refer to step-by-step guide for reference photos). The retarder can then be carefully covered with plastic to prevent rapid drying. The retarder should be sprayed at a minimum rate of 200ml per m² which will leave the surface glistening.

Even though the retarder is blue in colour, a second person can assist the person spraying, ensuring the whole floor is sprayed evenly.

NOTE: Do not re-trowel over areas sprayed with retarder. Do not over-spray retarder onto areas that still need to be worked on.

Step 4: Exposing of the aggregate

It is essential to first carefully test a small section as to its suitability under washing conditions. Warm weather will speed up the setting time whilst cold weather will delay the setting of the product (therefore premature washing could damage the surface).

The area should be washed using a portable high-pressure water washer with a wide slit nozzle and assisted with a nylon brush or broom. This will assist in the exposure of the decorative stones. The nozzle should be kept 20 to 40cm away from the surface and sprayed at a 45 degree angle.

Exposing time after application of the retarder:

Leave the floor covered with plastic for at least 2 days in summer and 3 to 4 days in winter. Then do the test and wash as above. The retarder can be sprayed off after 24 hours; however extreme caution is required so as not to damage the surface.

Curing

Acid wash the surface to clean the aggregates. Dilute Hydrochloric pool acid with 5 parts water and brush the surface with a soft broom for 5 minutes. Rinse the floor with Soduim Bicarbonate mixed with 10 parts water after acid washing then allow to dry completely before applying Cemcrete's Densifier (potassium based). For best results apply the Densifier 7 days after application. Spray the Densifier to a point of saturation but do not allow the liquid to pool. If there is pooling, remove excess with a sponge. Allow the Densifier to react for 20 minutes. If sections start to dry out re-wet them with additional Densifier. Rinse off the floor to remove excess Densifier.

Sealing

Once the Exposed Aggregate has been cured and densified ensure the surface is dry using a suitable moisture meter prior to sealing. Moisture level should be a maximum 5% prior to sealing with relevant sealer(s).

Coverage

20kg Exposed Aggregate will cover ±0.8m² at 8mm thick. 1 litre retarder will cover 4 - 5m².

Packaging

Supplied in 20kg bags.

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.

Johannesburg Head Office 8 Telford Street Industria 011 474 2415

Johannesburg Showroom 227 Jan Smuts Avenue Parktown North 011 447 3149

Centurion Showroom & Warehouse 15 Coachmen's Park 26 Jakaranda Street, Centurion 012 653 6808

Cape Town Showroom & Warehouse Eagle Park, cnr Bosmansdam & Omuramba Roads, Montague Gardens 021 555 1034



CERCERTE[®] Manufacturers of Distinctive Decorative Coatings 0860 CEMCRETE | info@cemcrete.co.za | www.cemcrete.co.za

Exposed Aggregate Datasheet

October 2022 Page 4 of 4

Colours

Please refer to our website: www.cemcrete.co.za for the updated colour choices. It is important to remember that final colours may differ from those depicted on the colour charts as a result of factors such as site conditions and choice of sealer etc. It is important to base your final decision on samples applied by the same contractor and under the same conditions as is governed by the relevant contracting parties. We recommend two samples should be made by the contractor, one for the client and one as a retained sample.

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.

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.

Johannesburg Head Office 8 Telford Street Industria 011 474 2415

Johannesburg Showroom 227 Jan Smuts Avenue Parktown North 011 447 3149

Centurion Showroom & Warehouse 15 Coachmen's Park 26 Jakaranda Street, Centurion 012 653 6808

Cape Town Showroom & Warehouse Eagle Park, cnr Bosmansdam & Omuramba Roads, Montague Gardens 021 555 1034