

STEP-BY-STEP GUIDE

Exposed Aggregate

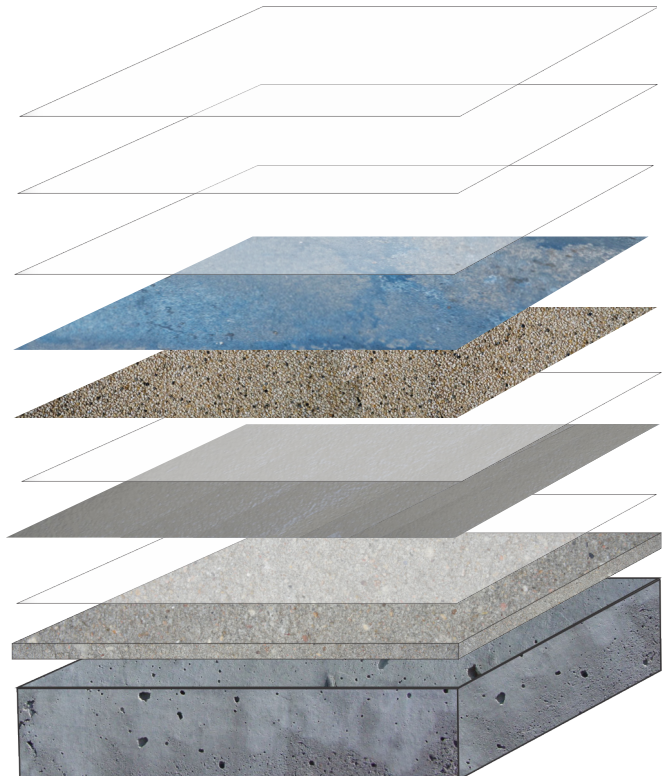


What do you need:

🔧 Tools & Consumables	📄 Products	📈 Difficulty
<ul style="list-style-type: none"> • Mechanical mixer • Airless spray gun • High-pressure water washer • Broom • Steel trowel 	<ul style="list-style-type: none"> • Concrete Primer • FlexBond • Exposed Aggregate • PrimerCote • Densifier - Potassium-Based • Silicon Seal • Relevant sealer 	<p>★ ★ ★ ★ ★</p>

The system:

10. Sealer
9. SiliconSeal (recommended for exterior applications)
8. Densifier - Potassium-Based
7. Retarder (removed before sealing)
6. Exposed Aggregate Mix
5. Concrete Primer
4. PrimerCote
3. SiliconSeal (recommended for exterior applications)
2. Screed (if necessary)
1. Substrate



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Exposed Aggregate onto new concrete surface



1. 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.



2. 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.



3. 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. The surface, once repaired, must be primed with PrimerCote as per its datasheet, and leave to dry overnight.



4. 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.



5. Prior to mixing, ensure all 8mm dividing strips are installed correctly. Working a single control joint area at a time.



6. The following day apply one coat of Concrete Primer and when tacky apply the Exposed Aggregate, 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.

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Apply the mixed Exposed Aggregate to a thickness of 8mm with a suitable steel trowel onto the tacky Concrete Primer to ensure a proper bond between layers.



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 to the entire control joint panel in a continuous operation. Repeat entire process for each panel.

Note: No panels should be left partially filled as cracks will appear when the new Exposed Aggregate is applied at a later stage.



The retarder is colourless in nature, a second person can assist the person spraying, ensuring the whole floor is sprayed evenly so as to obtain an even aggregate exposure. 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 wet 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.

Curing Instructions

- Acid wash and neutralize as per the data sheet. Allow to dry then apply the Densifier - Potassium-Based as per the Exposed Aggregate data sheet.

Sealing Instructions

- 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 5% or below prior to sealing. Apply Relevant Sealer as per its datasheet, two coats should suffice.



Leave the floor covered with plastic for at least 3 days in summer and 4 to 5 days in winter, the area should be washed using a portable high-pressure water washer with a wide slit nozzle and assisted with a fine wire or nylon brush or broom. This will assist in the exposure of the decorative stones. Consult the data sheet for details.

