METHOD OF STATEMENT FOR DECORATIVE CONCRETE

Al Riyadh, Kingdom of Saudi Arabia
+966 54 627 2003 | +966 54 920 2394 | info@gulfarabcrete.com | sales@gulfarabcrete.com | www.gulfarabcrete.com

1. Objective:

The objective of this method statement is to provide guidelines and procedures for the proper installation of Decorative concrete floors using GAC Integral Color (Color Crete 500),Aggregates and protective sealer resulting in a durable, aesthetically pleasing, and gloss/Matt finish.

2. Scope:

This method statement applies to the installation of Decorative concrete floors in various areas such as commercial buildings, residential properties, and industrial facilities.

3. Responsibilities:

- Project Manager: Overall responsibility for ensuring the proper execution of the method statement.
- Site Engineer: Responsible for supervising the Decorative concrete installation process and coordinating with the construction team.
- Concrete Contractor: Responsible for providing the necessary tools, equipment, materials, and skilled personnel for the installation, concrete pouring and finishing.

4. Equipment and Materials:

- Concrete mix (as per project specifications)
- Reinforcement materials (if required)
- GAC Color Crete 500(Integral Color)as per project requirements
- Aggregates as per Project requirements
- GAC Protective sealer
- Power trowel / Power Float /Grinder
- Wet vacuum or automatic scrubber
- Broom and Mop
- Sprayer or roller for applying sealer
- Safety equipment (personal protective equipment)

5. Procedure:

5.1 Preparation:

5.1.1 Conduct a site inspection to ensure the concrete substrate is suitable for laying. Check for any cracks, spalling, or surface defects that may require repair or rectification.

5.1.2 Ensure the concrete mix design meets the project specifications, and any required reinforcement materials are properly installed.

5.1.3 Clean the concrete surface thoroughly, removing any debris, oil, grease, or other contaminants that may affect the adhesion and performance of the GAC products.

5.1.4 Polythene sheet will be used up to 250/500 microns.

5.1.5 Installation of wire mesh as per project requirements.

5.2 Application of GAC CrackFill 100:

5.2.1 Clean the surface with water and grind it with soft diamonds disk so that the surface can be clear and free from dirt.

5.2.2 Open the cracks using pointed pencil grinder tools as deep we can achieve to clear the cracks.

5.2.3 Clean the crack from all contamination.

5.2.4 Use GAC CrackFill 100 grout mix with water and apply it with putty blade. Sand it after 2 hour and reapply 2nd coat so that the crack is level.

5.2.5 Cover the area with plastic sheet and pore water inside for curing for moisture curing for 48 hours

5.3 Application of Decorative Concrete:

5.3.1 Prepare the concrete mix as per the approved design mix, ensuring the correct proportions of aggregates, cement, water, and admixtures are used.

5.3.2 Add the GAC integral color to the concrete mix, following the manufacturer's instructions, and mix thoroughly to achieve a uniform color throughout the concrete.

5.3.3 Pour the Decorative concrete onto the designated area and spread it evenly using shovels or rakes.

5.3.4 Use a power trowel to finish the concrete surface, ensuring it is smooth, level, and free from any trowel marks.

5.4 Grinding & Polishing:

5.4.1 Allow the concrete to cure for the recommended time as per the concrete mix specifications and environmental conditions.

5.4.2 Use a polishing machine equipped with diamond abrasive pads to polish the concrete surface gradually, starting with coarser grits and progressing to finer grits, until the desired level of gloss and smoothness is achieved.

5.4.3 Repeat the polishing process with each successive grit, ensuring all areas of the concrete surface are evenly polished.

5.4.4 After the final polishing step, thoroughly clean the surface using a wet vacuum or automatic scrubber to remove any residue or dust.

5.5 Application of GAC Protective Sealer:

5.5.1 Ensure the Decorative concrete surface is completely clean and dry before applying the GAC protective sealer.

5.5.2 Apply the sealer onto the surface using a sprayer or roller, following the manufacturer's recommendations for application rates and coverage.

5.5.3 Allow the sealer to dry and cure as per the manufacturer's instructions, taking into account environmental conditions such as temperature and humidity.

5.5.4 Apply additional coats of sealer if required, ensuring each coat is allowed to dry and cure before applying the next.

6. Health, Safety, and Environmental Precautions:

6.1 Ensure all personnel involved in the installation and polishing process wear appropriate personal protective equipment (PPE) such as safety goggles, gloves, and boots.

6.2 Adhere to local safety regulations and guidelines throughout the application and polishing process.

6.3 Properly dispose of any waste materials, such as excess concrete or packaging, in accordance with local environmental regulations.