

METHOD OF STATEMENT FOR EXPOSED CONCRETE

1. Objective:

The objective of this method statement is to provide guidelines and procedures for the proper installation of Exposed Aggregate 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 Exposed Aggregate 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 Exposed Aggregate 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 CC500) as per project requirements
- Aggregates as per Project requirements
- GAC DeTop 100 Concrete Deactivator
- GAC Protective sealer
- 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 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 Exposed Aggregate Concrete:

- 5.2.1 Prepare the concrete mix as per the approved design mix, ensuring the correct proportions of aggregates, cement, water, and admixtures are used.
- 5.2.2 Add the GAC integral color (CC500) to the concrete mix, following the manufacturer's instructions, and mix thoroughly to achieve a uniform color throughout the concrete.
- 5.2.3 Pour the concrete onto the designated area and spread it evenly using shovels or rakes.
- 5.2.4 Use a trowel to finish the concrete surface, ensuring it is smooth, level, and free from any trowel marks.
- 5.2.5 Broadcast Aggregates as per project Specification and tap inside the concrete and trowel.

5.3 *Removing the Top layer for Exposing Aggregates.:*

- 5.3.1 Allow the concrete to semi cure for the recommended time as per the concrete mix specifications and environmental conditions.
- 5.3.2 Apply GAC DeTop 100 concrete deactivator using roller /Spray on top of the concrete.
- 5.3.3 After 6-12 hours remove the top layer using pressure washer to expose the aggregate upto 3-4mm.

5.4 *Application of GAC Protective Sealer:*

- 5.4.1 Ensure the Exposed Aggregate surface is completely clean and dry before applying the GAC protective sealer.
- 5.4.2 Apply the sealer onto the surface using a sprayer or roller, following the manufacturer's recommendations for application rates and coverage.
- 5.4.3 Allow the sealer to dry and cure as per the manufacturer's instructions, taking into account environmental conditions such as temperature and humidity.
- 5.4.4 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.