



Technical Data Sheet

Ecoshake GPA

Single Component Polymer Modified dry shake concrete hardener

Description

Ecoshake GPA is one component ready for use dry shake concrete hardener. **Ecoshake GPA** is formulated from cement, Quartz, and selected additives to provide a non-metallic, smooth surface with high abrasion and wear resistance.

Applications

- Workshops and industrial areas.
- Aircraft hangars and service stations.
- Aircraft hangars
- Parking areas

Advantages

- High wear resistance rating
- One component, ready to use and easy to apply.
- Provides monolithic floor and dust proof
- Available in wide range of colors

Technical properties

Form	Powder
Color	Cementitious grey
Abrasion Resistance CS-17 /1000 gm @ 1000 revolution	< 0.15 gm
Layer Thicknesses	2.5 – 3.0 mm
Min. application Temperature:	5°C

Concrete limitations

The following concrete limitations and properties should be considered to obtain hard concrete surface with high abrasion resistance:

- W/C ratio should be less than 0.5, water reducing admixtures are highly recommended to achieve such water cement ratio.
- Concrete slump should be between 75mm and 100mm.
- Cement content should be more than 300kg/ m³.
- Entrained air should be less than 3%.
- Proper concrete compaction and leveling is a must.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.

Method of use

Substrate Preparation

- The right time to spread the **Ecoshake GPA** on concrete surface is when light foot traffic leaves an imprint of about 3-6 mm.
- Any bleed water still present should be removed.
- Spread two thirds of the required quantity of **Ecoshake GPA** onto the concrete surface and allow the material to absorb moisture from concrete.
- First floating application should start; when a uniform dark color appears (indicating material is wet). Either mechanical or manual floating can be used depending on area to be floated and the required finish.
- Apply the remaining quantity of **Ecoshake GPA** evenly and wait until material becomes wet (darker in color) before floating.
- Use a power troweling machine to make the final finish.
- Any wetting of the first or second application of **Ecoshake GPA** with water addition will affect the overall quality of the floor.
- Proper curing should be maintained to the floor surface as soon as the surface is set and is not be marred by the curing method.

Timing of application

Timing of **Ecoshake GPA** application is critical. Adequate machinery, labor and material should be available to complete the whole area while sufficient concrete moisture is available. Applying **Ecoshake GPA** before or after the proper application time can seriously affect the quality of the concrete floor finish.

Application Rate

Ecoshake GPA should be applied at the rate of 3 - 5 kg/ m² depending on application thickness.



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Storage

Ecoshake GPA shelf life is 12 months if stored at temperatures between 2°C and 35°C in original unopened bags.

If these conditions are exceeded, Envirocon technical department should be contacted for advice.

Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials must be cleaned mechanically.

Packaging

Ecoshake GPA is available in 25kg bags.

Cautions

Health and safety

Ecoshake GPA contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

Ecoshake GPA is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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