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Carbgrains

High quality silicon carbide aggregates

USES

Carbgrains are a high quality blend of silicon carbide aggregates, for use in providing a very hard wearing, durable non slip finish for concrete.

Carbgrains are ideal for use on industrial floors subject to high impacts or abrasion, such as warehouses, loading bays, workshops and car parks.

Concrete stair treads can also be treated with Carbgrains to supply a hard wearing non slip finish.

BENEFITS

- Integral bond with concrete substrate
- Very high hardness gives excellent resistance to impact
- Excellent resistance to abrasion
- Non metallic aggregates – will not rust
- Economical and easy to apply
- Long lasting durable finish
- Provides a non slip finish for concrete

TYPICAL PROPERTIES

<i>Appearance</i>	Angular black aggregate
<i>Hardness</i>	
Moh's Scale	9+
Knoop Scale	2480
<i>Chemical Analysis</i>	
SiC	+98%
SiO ₂	0.7%
Fe ₂ O ₃	0.4%
Al ₂ O ₃	0.5%
<i>Sizing</i>	
+1.4mm	5% max
-0.5mm	5% max

MIXING

Mixing is not required – Carbgrains are supplied ready to use straight from the bag.

PREPARATION

Bags of Carbgrains should be laid out alongside the application site to ensure the product is applied at the correct rate.

APPLICATION

Apply dry Carbgrains to the freshly screeded concrete surface by dusting them on in two applications.

The first application should be made as soon as surface water has disappeared, and dusted onto the surface in order to give an even appearance, then floated into the surface.

Ensure that slab edges along formwork and areas near doorways receive the required dose rate of Carbgrains, as these areas tend to dry faster.

Immediately after this operation is finished, the second application can be performed in the same manner as the first.

After the second application is floated into the surface, normal procedures for finishing the concrete to the desired standard should be observed.

ESTIMATING

Dose rate for normal finish:	0.5 kg/m ²
Coverage:	50m ² per 25kg bag

CURING

Concrete surfaces treated with Carbgrains should have a curing compound, such as Pavecure A, applied to the surface once finished to maximise surface hardness and durability.

CLEAN UP

Clean all equipment with water immediately after use.

SUPPLY & STORAGE

Carbgrains are supplied in 25kg bags. Carbgrains should be stored in a cool, dry place in original, unopened bags. Shelf life under these conditions is 12 months.

PRECAUTIONS

Carbgrains are designed for use in ambient temperatures between 10° - 35° C and all properties listed above assume a temperature of 20°C. Where conditions outside this range are encountered, please consult our technical staff prior to application.

Application of Carbgrains in strong winds can increase the chance of segregation or an uneven appearance, and should be avoided where possible.

Material Safety Data Sheets (MSDS) are available to users of Aitken Freeman products on request. Please ensure you have read this data sheet, the MSDS, and the product label carefully before first use of any product.

TECHNICAL SUPPORT

Aitken Freeman offers a comprehensive range of high quality, high performance construction and engineering products. In addition, our sales representatives can offer technical support to users and specifiers, and can arrange on-site visits to end users and contractors.

ALLIED PRODUCTS

Aitken Freeman manufactures a broad range of construction products and can supply the following:

- Grouts and anchoring systems
- Epoxy Surface Coatings
- Admixtures for concrete
- Adhesives & Sealants
- Floor toppings
- Floor levelling compounds
- Concrete Repair materials
- Waterproofing solutions

Always refer to Material Safety Data Sheet for precautions and personal protection

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