(GC11/07/18)

GLASCRETE

AN EXPOSED GLASS AGGREGATE FINISH

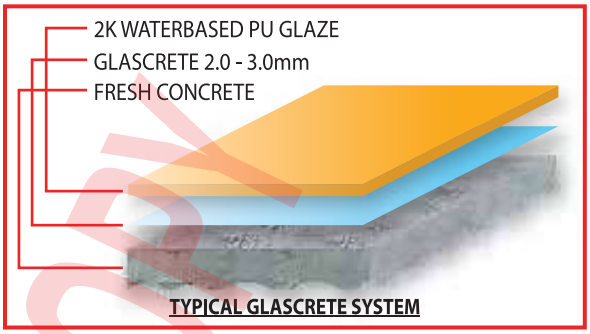
PRODUCT DATA SHEET

CEMKRETE®

ISO 9001 & 14000 CERTIFIED

DESCRIPTION

GLASCRETE is a ready-to-use, colored or uncolored (depending on desired effect) mix of cement, silica sand, admixtures, and decorative glass designed for application by the dry shake method over freshly poured concrete surfaces. Available with a variety of crushed colored glass embedded into the surface. A durable surface flecked with small decorative aggregates is produced after the process of exposing.



TYPICAL GLASCRETE SYSTEM

USES

GLASCRETE is ideal to be used as a hard-wearing and abrasion-resistant floor finish for landscapes and/or interior spaces while preserving the structural integrity of the concrete and the look of natural materials. Available in an unlimited variety of colors and aggregates, **GLASCRETE** is an economical way to create attractive and highly decorative plazas, walkways, pool decks, and driveways.

ADVANTAGES

- Easy to apply and economical.
- Provides a slip-resistant surface.
- Applicable to both exterior and Interior application.
- Unlimited choice of combination with aggregates.
- Produces a highly decorative finish with unusual colors unique effects.
- Increases wear and abrasion resistance to conventional standard concrete.
- Provides a high-density surface that is oil and grease resistant, dust reducing and easy to clean and maintain.

COLOR

Available in an unlimited various colors.

FINISH

Normally glass with glaze coat.

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Technical Data :

No. of Components	Glascrete Dry Mix : PU Glaze :	1 2
No. of Coats Recommended		N/A
Recommended Dry Film Thickness		20 - 30mm
Estimated Coverage	Glascrete Dry Mix : PU Glaze :	5 - 6 kgs/m^2 4m^2/kg/coat
Mixing Ratio (By Weight)	Glascrete Dry Mix : PU Glaze :	N/A 1 : 5
Curing Time	Full Traffic : Full Cure :	24 hours @ 35°C 7 days at 25°C
Compressive Strength		As the base concrete
Flexural Strength		As the base concrete
Tensile Strength		As the base concrete
Impact Strength		< 0.5 mm (BRE Screed test)
Pot Life		N/A
Packaging Available in	Glascrete Dry Mix : PU Glaze :	40kg packs 18kg packs

NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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CONCRETE MIX

The base of the concrete to be coated with **GLASCRETE** is recommended to contain a minimum of 300 kg of cement per cubic meter. All aggregates must be clean and free of particles that may deteriorate; the water cement ratio should be less than 0.55; and the slump should not exceed 10 cm. The base concrete should be poured and compacted in accordance with good concrete practice. Avoid the addition of calcium chloride or any admixtures containing calcium chloride. Do not use water-reducing admixtures (superplasticizer). Additionally, all aggregates in the concrete mix must be nonreactive and free from deleterious materials.

COVERAGE

GLASCRETE should be applied at a minimum rate of 5 - 6 kg/m^2.

APPLICATION

It is essential that application over the entire surface is completed while sufficient moisture in the concrete is present to assure proper infusion of the powder onto the surface. Therefore, it is highly recommended that required labor, materials and machinery are prepared and made available well in advance prior of initiating the application. Conversely, application of the powder compared too early when excessive amounts of moisture is present will lead to poor intusion results.

When working under conditions of high winds, wind breaks/ barriers should be constructed around the work area. The concrete should first be spread, screeded, and vibrated so that it completely fills all the space inside the form. Before the appearance of excess moisture, the surface should be floated using wood or magnesium floats to the desired level and flatness. **DO NOT TROWEL THE SURFACE PRIOR TO APPLICATION OF GLASCRETE**; troweling closes the surface, making it difficult to work the fine materials onto the surface. Application of **GLASCRETE** must only begin after excess and bleed moisture have disappeared from the surface and that the floating process would not disrupt the level of the surface, all while the concrete is still in its plastic state throughout. **DO NOT** attempt to absorb bleed water by applying the powder at an early stage. Water must not be sprinkled or added onto the surface during application or finishing. The necessary moisture for the hardener must come from the concrete in order to develop a proper bond while ensuring there on adequate density of the finished surface.

It is recommended to divide and mark the floor into sections of known areas in order to set aside the proper amount of material to be applied to each section. **GLASCRETE** should be applied over two shakes; two thirds of the material on the first application and one third on the second.

Apply the materials by broadcasting over the surface at a height less than knee height. Do not throw material of a distance more than 1 meter away. The edges of the slab should be worked first since they set quicker. After each shake, the surface must be thoroughly floated in order to work the material onto the surface. The surface must **NOT** be troweled between the first and final shakes. Never sprinkle or add water to the surface. After the application of the final shake, the surface should be floated and then troweled once it has hardened sufficiently. Hard troweling should be minimized to ensure uniformity of the surface. Do not over-trowel in order to minimize trowel-burn and discoloration.

Mechanical Floating/Troweling: In the case of using of a power float/trowel, application of the hardener by the dry-shake method may be carried out in a single pass once the surface moisture has completely disappeared. After the surface has hardened enough to take the weight of the machine and operator, the surface may be power floated. The surface is then left to harden further before it is power troweled. Power troweling is carried out in several stages, increasing the pitch angle of the blades with each stage until the desired surface smoothness and finish are achieved. Manual troweling and floating are not necessary except in tight areas and edges where the machine might not cover the surface thoroughly.

Aggregate Exposure: Aggregates may be exposed by acid etching. Acid etching can be carried out the next day after the Glascrete/Concrete has set. Apply **GLASCRETE** Acid gel by roller or bristle brush on the **GLASCRETE** surface uniformly and allow to react for 30 - 60mins. On completion, sprinkle Glascrete Neutralising Powder over the etched surface to minimise the acid contamination to the surrounding. Followed by flushing the area with clean water. Allow to dry for 48 hours.

*Warning: Wear protective gears when handling **GLASCRETE** Acid gel and Neutralising Powder.*

CURING

Curing should be carried out immediately after completion of trowelling by conventional methods of misting techniques.

SEALING

For enhanced protection of **GLASCRETE** surface, it is recommended that the surface to be sealed with **GLASCRETE PU** Glaze. 2 Coats are recommended to be rolled on after the initial **GLASCRETE** surface is dry.

CLEANING

Clean all tools and equipment promptly with clean water.

STORAGE

Keep material covered to prevent exposure to moisture. Store in a cool dry area. Portland cement and silica based products present health hazards. Irritating to eyes and skin. Use on adequate ventilation dust mask when handling the product and with rubber gloves .

PACKAGING

40 kg plastic bags.

HEALTH & SAFETY

Although **GLASCRETE** is non-toxic, it is alkaline in nature. Gloves and goggles should be worn. Any splashes to the skins or eyes should be washed off with plenty of clean water. In the event of prolonged irritation, seek medical advice immediately. Powder products should be handle properly to minimize dust formation. Use a light mask if excessive dust is unavoidable.

FURTHER INFORMATION

With a wealth of technical and practical experience built up over many years in our pursuit of excellence especially in the protective, flooring and concrete technology, make **CEMKRETE** your partner today. Contact our hotline now.

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