

VIRACRETE 700

Exposed Colored Aggregate Decorative Finish

Description

VIRACRETE 700 is a ready to use colored mix of silica sand, Portland cement, chemical admixtures and colored aggregates. It is available in variety of aggregates color designs such as marble chips, glass chips and granite chips that are embedded to the concrete surface and exposed with different procedures to give very attractive floor decoration.

Features & Benefits

- High wear and abrasion resistance
- Available in different colors and aggregate designs.
- Dense concrete finishing
- UV resistant color
- Durable surface, high weather and chemical resistant
- For exterior and interior floor finishing
- Ready-mix, easy to use

Uses

VIRACRETE 700 is a hard wearing and abrasion resistant floor finish good for exterior hardscapes and interior applications to give concrete strength and natural finishing. It is available in different colors and aggregate designs. It is an economical way to create decorative drive ways and article designs.

Application Procedures

Concrete Specifications:

Use a base concrete mix design that meets the specifications of the job. The concrete design should contain minimum 300kg cement per cubic meter. DO NOT use any concrete chloride admixtures. All aggregates should be non-reactive and free of deleterious material. Slump should not exceed 10cm and water/ cement ration should be less than 0.55. avoid using calcium chloride or super plasticizer in the mix.

Application Instructions:

The application over the entire surface should be completed while sufficient moisture in the concrete is present to assure proper infusion of the powder into the surface. Therefore, it is highly recommended that required labor, materials and machinery are prepared and made available well in advance.

Application of the powder too early when excessive amounts of moisture are present will lead to poor results. When working under conditions of high winds, wind breaks or 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 **VIRACRETE 700**; troweling closes the surface, making it difficult to work the fine materials into the surface. Application of **VERACRETE 700** must begin only after excess and bleed moisture have disappeared from the surface and the floating process would not disrupt the level of the surface, but while the concrete is still plastic throughout. DO NOT attempt to absorb bleed water by applying the powder at an early stage. Water must not be sprinkled or otherwise added to the surface during application or finishing. The necessary moisture for the hardener must come from the concrete in order to develop a proper bond and assure adequate density of the 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. **VIRACRETE 700** should be applied over two shakes; two thirds of the material in the first application and one third in the second.

Apply the material by broadcasting over the surface at less than knee height. Do not throw material a distance more than 1 meter. 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 into 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 and consistent finishing used to ensure uniformity of the surface. Do not over-trowel in order to minimize trowel-burn and discoloration.

Mechanical Floating/Troweling:

In case of the use of a power float/trowel, application of the hardener by the dry shake method may be carried out in a single pass once 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 either sandblasting, acid washing, high-pressure water jet, or the use of VIRACRETE 711 Concrete Surface Retarder, depending on the aggregate size and desired exposure effect. When sandblasting or high-pressure water jet is used, the topping must be allowed sufficient time to cure; a minimum of 14 days is recommended for sandblasting, and a maximum of 7 days for pressure water jet depending on strength of machine used. For smaller aggregates, acid washing might produce the best results. Acid washing may be carried out the next day after the concrete has set.

Sealing:

For enhanced protection of the concrete surface, it is recommended that the surface be sealed with **TOPSEAL S20 OR TOPSEAL W30** (Refer to product technical data sheet for application instructions)

Yield/ Coverage

VIRACRETE 700 should be applied at a minimum rate of 5 kg/m².

Packaging

VIRACRETE 700 is available in bags of 35kg.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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