

STRATUM Quartztop

Quartz-based surface hardening compound for concrete floors

DESCRIPTION

STRATUM Quartztop is a mixture of finely graded non-metallic Quartz aggregates, plasticizer and cement binder. It is an economical concrete floor hardener recommended for both interior and exterior use. When applied at the proper point in the concrete setting cycle.

USAGES

- Typical applications such as parking areas, warehouses, workshops, service stations, aircraft hangars
- Interior and exterior applications on floors where high surface hardness is required

STANDARDS

STRATUM Quartztop complies with:

- ASTM C944/C944 M-12 for abrasion resistance
- Mineralogical society of America- 7 on Moh's scale of hardness

ADVANTAGES

- Easy application
- High abrasion and impact resistance
- Bonds monolithically to fresh concrete
- No dusting-surface
- Non-oxidizing (Non-metallic)
- Slip-resistant finish can be obtained
- Provides a hard-dense surface resistant to oils and petroleum-based products
- Economic installation

TECHNICAL DATA

STRATUM Quartztop	Typical values
Appearance	Grey powder
Compressive Strength @day 28 (BS EN196)	70 N/mm ²
pH	12 – 13
Hardness (Moh's scale) (BS EN 196:2005)	6 – 7
Abrasion Resistance Improvement (ASTM C779/779 M-12)	250%
Bulk Density	1.5 g/cm ³
Harmfulness to ECC 88/379	No
VOC	25 mg/liter

USAGE INSTRUCTIONS

1. Surface preparation

STRATUM Quartztop can only be applied to fresh concrete or screeds. For hardening or coating existing concrete, please contact Arkaz office.

High performance concrete is essential to ensure durability of the floor in service. **STRATUM Quartztop** can't make weak concrete stronger and more durable.

STRATUM Quartztop is not recommended for use with vacuum dewatered or air entrained concrete.

High water-reducing admixtures such as the **ARCcrete** range are highly recommended for use in the concrete to give a consistent, good quality, high strength mix with a minimum cement content of 300 kg/m³ and a maximum water : cement ration 0.55.

Prior to concrete delivery, mark the floor into known areas, calculate sufficient **STRATUM Quartztop** and arrange materials to be placed adjacent to the area that will be concreted.

2. Priming

Priming is not required for **STRATUM Quartztop**.

STRATUM Quartztop	Coverage
Light traffic	3kg/m ²
Medium traffic	5kg/m ²
Heavy traffic	7kg/m ²

3. Application

Once poured and levelled concrete has achieved its plastic state, and bleed water has evaporated, application of **STRATUM Quartztop** should take place in 2 phases.

First, evenly scatter **STRATUM Quartztop** onto the concrete surface at a rate of 2-4 kg per m², allowing the residual moisture in the concrete to be absorbed by the floor hardener, hydrating and darkening it in color, once it has become uniformly dark from the absorption of water, it can be floated onto the concrete typically using power floats to ensure good compaction and monolithic surface.

However, it should not be overworked as the final application still has to be applied. Hand trowels can be used to smoothen areas that are inaccessible from the power floats.

Immediately after floating, repeat the application of **STRATUM Quartztop** at a rate of 1-4 kg per m² dependent on the specification or level of expected traffic, and wait for the hardener to become dark from absorbing moisture.

Again, using power floats to ensure good compaction and monolithic surface with the first application, float the material into the concrete and continue until a dense polished final surface is achieved.

PACKAGING

STRATUM Quartztop is supplied in 25 kg bags.

HEALTH & SAFETY

Is non-toxic and non-hazardous, if material comes in contact with skin, cleaning with water and soap is recommended.

STORAGE & SHELF LIFE

STRATUM Quartztop shall be stored in normal conditions away from extreme temperatures, and any source of moisture. Shelf life is 12-months.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:
concretedoctor@arkaz.com

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