



## PRODUCT DATA SHEET – QUARTZSTONE HDB

### DESCRIPTION

QuartzStone HDB is a non-slip flooring that is 5mm (3/16) to 6mm (1/4 ") thick. It combines an aesthetics and durability extraordinarily. Its base, smoothed with a trowel 3mm to 4.5mm thick, gives this coating superior resistance to mechanical shocks and allows it to be applied to substrates even if they are somewhat rough. The protective top layer is both aesthetic and safe thanks to its non-slip grain colored quartz granulate. QuartzStone HDB has no gaskets, preventing dirt and bacteria from getting in. It is also resistant to most chemicals, solvents and alkalis

### AREAS OF APPLICATION

- Commercial: stores, grocery stores, community center, shopping centers, commercial kitchens, banks, administrative buildings, restaurants and cafeterias
- Changing rooms, showers
- Pharmaceutical laboratories
- Offices
- Hospitals, schools, museums and galleries, health establishment, veterinary clinics
- Light and medium manufacturing areas
- Agricultural production center

### ADVANTAGES

- ColorProtech UV technology for color protection against fading caused by UV rays
- Odorless, non-toxic to the environment and to your health
- Waterproof, seamless
- Durable, hygienic
- Good chemical resistance
- Good mechanical resistance
- Easy to clean, variety of non-slip textures
- Round groove seamless wall baseboard option
- Aesthetic and shiny finish, matte or satin finish optional
- Very efficient in terms of resistance to the growth of fungi (ASTM G21) and mold (ASTM D3273 standard).
- Meets CFIA requirements for use in food processing plants.



#### ANTIMICROBIAL TECHNOLOGY

Our floor coatings have an Ultra-Fresh antimicrobial additive to minimize the growth of damaging bacteria ensuring a cleaner surface between clean-ups. This protection reduces the risk of premature degradation of the coating by preventing the microbial growth. Ultra-Fresh is a commercial brand from Thomson Research Associate, Inc.



### STORAGE

Store all components in a dry place, temperature between 16 C and 30 C. Avoid prolonged exposure to frost and sunlight. 2 year shelf life in (original containers).

### PACKAGING

**ShineSTONE 125** : 30kg unit– A:B:C  
**ShineSTONE 435** : 5gal unit (18,9L) – 2A:1B  
**DiamondSTONE Quartz Aggregates** : 22,7kg bag (50lbs)

### CONSUMPTION

SHINESTONE FK  
1/16" – 1,5MM

**Screed** : *ShineSTONE 125 to 3mm (35sqft / kit)*  
**Bottom layer** : *ShineSTONE 435 to 15 mils (100sqft / gal), saturated with quartz (50lbs / 40sqft)*  
**Topcoat** : *ShineSTONE 435 (transparent) from 10 to 20 mils (75-125 sqft / gal)*

### STANDARD COLORS

8 standard colors - consult the color chart



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### INSTRUCTIONS

#### SURFACE PREPARATION

Thoroughly dust off and remove all traces of contaminants such as dirt, paint, efflorescence, laitance, oil, grease, biological residues (fungi, molds) or any other contaminant which could impair adhesion. Concrete surfaces must be clean and sound. Mechanically prepare by shot-peening to obtain an ICRI profile of CSP 3 to 6. The compressive strength of the substrate must be at least 25 MPA (3625 lbs / in<sup>2</sup>) at 28 days and the concrete compressive strength must be at least 1.5MPA (218 psi). Repairs to the bottoms must be carried out with suitable products, compatible with the manufacturer's product line. Contact our sales department at DiamondSTONE for recommendations. Make saw cuts around the perimeter of the surface, in doorways, around drains and gutters and at any junction with other coverings. The saw cuts must be twice as deep as the thickness of the coating.

#### MIXING THE PRODUCT

Mix only complete units. Condition the materials at a temperature between 16 and 22 ° C, at least 24 hours before use. Mix parts A and B mechanically for 2m30s, making sure that all the liquids are distributed evenly and thoroughly mixed.

#### INSTALLATION

Before proceeding with the application, measure and confirm the following variables: humidity level of the substrate, relative ambient humidity, ambient and surface temperature and dew point. Treating concrete substrates with a primer is generally not necessary under normal circumstances. However, due to variations in concrete quality, surface conditions, surface preparation, and ambient conditions, a primer may be required to prevent the possibility of bubble, peeling, pitting and other aesthetic variations.

**MORTAR:** Apply the mortar Shinestone 125 at your desired thickness (3mm to 4.5mm). Let the mortar cure for a few minutes to let the air escape, then compact evenly and smooth with a steel trowel. The screeds around drains, passages or level changes must be bent at an angle.

**1st SPREADING:** Apply a coat of ShineSTONE 435 with a squeegee and roller at a thickness of 15mils, saturated with DiamondSTONE Quartz Aggregates in the wet binder. Leave to cure to allow foot traffic.

**2ND SPREADING:** Sweep up / vacuum up the excess aggregate from the first application and make sure that no particles or dust remain on the surface. If necessary, lightly sand imperfections before applying the second coat. Apply a second coat of ShineSTONE 435 with a squeegee and roller at a thickness of 15mils, saturated with DiamondSTONE Quartz Aggregates in the wet binder. Leave to cure to allow foot traffic.

**TOP COAT :** Once the screed has sufficiently cured, sweep up and vacuum up the excess sand. Apply a topcoat of ShineSTONE 435 Transparent with a squeegee and roller at a thickness of 10 to 20mils depending on the desired texture. If needed, additional topcoats can be installed to adjust texture and sheen

#### RESTRICTIONS

- Must be applied by licensed professional applicators
- For indoor use only
- Min / max temperature of the substrate during application and curing: 15c / 28c, minimum 3c above the dew point
- 85% maximum relative humidity during installation and curing
- Maximum content of 4% moisture in the slab when coating is applied
- Mix mechanically only
- Protect from humidity for the first 24 hours
- The choice of color will have an impact on consumption and coverage. Light or bright colors may require more wet film thickness or multiple coats.
- Keep out of reach of children

APPLICATION TEMPERATURE	15C to 28 C
OPERATING TEMPERATURE	0 C to +60 C (continuous)
<b>CURING TIME</b>	at 20 C (6mm thick)
PEDESTRIAN	12h
LIGHT TRAFFIC	24h
NORMAL TRAFFIC	24h
SHELF LIFE AT 25 C	40 min
COMPRESSIVE STRENGTH (28 days) ASTM C579	90,0 MPA
TENSILE STRENGTH ASTM C307	13,7 MPA
FLEXURAL STRENGTH ASTM C580	25,5 MPA
PULL-OFF STRENGTH ASTM D4541	> 4,2 MPA (Substrate failure)
SHORE HARDNESS D ASTM D2240	83
ABSORPTION OF WATER ASTM C413	0,1%
VOC	< 30 g/L
CRITICAL RADIANT FLUX (ASTM E-648)	Class I
ABRASION RESISTANCE (ASTM D4060)	0,05g loss

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