



PRODUCT DATA SHEET – QUARTZSTONE TRW

DESCRIPTION

QuartzSTONE TRW is a decorative epoxy floor coating ranging in thickness from 3mm (1/8") to 6 mm (1/4") that offers increased durability and strength. This protective top layer is both aesthetically pleasing and safe thanks to its colored quartz aggregate with non-slip grain. Quartzstone TRW is seamless, preventing dirt and bacteria from lodging themselves anywhere. It is also resistant to most chemicals, solvents and alkali. It is available as both a smooth or non-slippery finish, and can be completed with either a gloss, satin, or matte look.

AREAS OF APPLICATION

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

ADVANTAGES

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



ANTIMICROBIAL TECHNOLOGY

Our floor coatings are designed to minimize the growth of damaging bacteria ensuring a cleaner surface between clean-ups due to their hydrophobic nature and their bacteriostatic properties. This protection reduces the risk of microbial growth by limiting the spread of viruses, germs and bacteria. Resistance to fungal growth ASTM G21: Rating 0 (no growth). Resistance to mold growth ASTM D3273: Rating 10 (maximum resistance).

STORAGE

Store all components in a dry place, temperature ranging from 16 C to 30 C. Avoid prolonged exposure to frost or sunlight. 2-year shelf life in original containers.

PACKAGING

ShineSTONE 435: 2.6gal (10L) or 15gal (56.7L) unit - 2A:1B
DiamondSTONE Quartz Aggregates: 22.7kg (50lbs) bags

CONSUMPTION SHINESTONE FK 1/16" – 1,5MM

Primer : *Shinestone 423 at 8mils (200 ft²/gal)*
Trowelled Mortar: *Mix 2,6 gal of ShineStone 435 with 176 lbs of Quartz Aggregates to create 1.9 ft³ of mortar.*
Top Coat (2x) : *ShineSTONE 435 (clear) from 10 to 20 mils (75-125ft²/gal)*

STANDARD COLORS

8 standard colors. See the color chart





PRODUCT DATA SHEET – QUARTZSTONE TRW

INSTRUCTIONS

SURFACE PREPARATION

Thoroughly dust off and remove all traces of contaminants such as dirt, paint, efflorescence, laitance, oil, grease, biological residues (fungi, mold) 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 / in²) 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

Only mix complete units. Condition the materials at a temperature between 16 and 22 ° C, at least 24 hours before use. First mix parts A and B mechanically for 2 minutes and 30 seconds, making sure all liquids are distributed evenly. Ensure thorough mixing.

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 blistering, peeling, pitting and other aesthetic variations.

APPLICATION: Using a squeegee and roller, apply a coat of ShineSTONE 435 evenly over the surface at a thickness of 8 mils. Cover surfaces as the mortar is installed. The mortar must be installed over the still wet primer.

MORTAR: Apply Shonestone 435 mortar mixed with Diamondstone Quartz Aggregates to the desired thickness (3mm to 6mm) over the still wet primer. Once the mortar is set, allow a few minutes for air to escape from it, spread and compact it evenly and smooth it over with a steel trowel. Screeds around the drains, passage ways or changes in level must be bent at the right angles.

FINISH COAT: Once the screed has had sufficient time to cured, sweep and vacuum up the excess sand. Apply two coats of ShineSTONE 435 Clear Finish using a squeegee and roller at a thickness of 10 to 20 mils, and leaving it to cure for 12 to 36 hours between coats. Add quartz aggregate to obtain a non-slip texture and adjust the intensity to your desired texture through the thickness of the top coat. If needed, additional top coats can be installed to adjust texture and gloss.

RESTRICTIONS

- Must be applied by licensed professional
- For indoor use only
- Min / max substrate temperature during application and curing: 15 / 28c, minimum 3c above dew point
- 85% maximum relative humidity during installation and curing
- Maximum moisture content of 4% in the slab when applying the coating
- Mechanical mixing only
- Protect from humidity for the first 24 hours
- Keep out of reach of children

IMPORTANT: DiamondSTONE believes the information contained herein to be true and correct at the date of publication, but it should be used for informational purposes only. As a result, this document does not in itself constitute a guarantee, either express or implied, of the product, including the implied guarantees and conditions of merchantability and fitness for a particular purpose. DiamondSTONE cannot therefore be held liable for any damage caused by the use of the described product, nor for any damage which may result from it. DiamondSTONE reserves the right to modify products and related documentation at its discretion and without notice. 11/17

APPLICATION TEMPERATURE	15C to 28 C
OPERATING TEMPERATURE	0 C to +60 C (continue)
CURING TIME	At 20C (6mm thickness)
PEDESTRIAN	12h
LIGHT TRAFFIC	24h
NORMAL TRAFFIC	48h
SHELF LIFE STORED AT 25 C	40 min
COMPRESSIVE STRENGTH ASTM C579	47,1 MPA
TENSILE STRENGTH ASTM C307	6,9 MPA
FLEXUAL STRENGTH ASTM C580	11,3 MPA
PULL-OFF ADHESION STRENGTH ASTM d7234	> 5,0 MPA (Substrate failure)
SHORE HARDNESS D ASTM D2240	83
WATER ABSORPTION ASTM C413	0,1%
VOC	< 30 g/L
RATE OF BURNING ASTM D635	Self-extinguishing
ABRASION AND WEAR RESISTANCE ASTM D4060	0,05g loss/w

