



## PRODUCT DATA SHEET – SHINESTONE 423

### DESCRIPTION

ShineSTONE 423 is a general purpose epoxy coating that is 100% solids, two-component, UV protected, colorful and glossy, that has been designed to protect concrete substrates. It will create a smooth or textured finish as desired.

### AREAS OF APPLICATION

- Decorative epoxy flooring systems (flake, quartz, solid color)
- Commercial: stores, grocery stores, recreation centers, malls, kitchens, banks, sports complexes and stadiums
- Changing rooms, showers
- Pharmaceutical laboratories, veterinary clinics, agricultural production plants
- Offices, administrative buildings
- Hospitals, schools, museums and galleries
- Clean rooms and sanitary areas
- Food Court Areas
- Light to medium manufacturing plants
- Processing plants and warehouses
- Retail stores
- Aircraft hangars

### ADVANTAGES

- 100% Solid, VOC-free
- ColorProtech UV color protection technology
- Protects concrete substrates against abrasion and corrosion
- Superior adhesion
- Seamless coating provides a seal that protects against moisture
- Hygienic, easy to clean
- Superior resistance to chemicals
- Variety of non-slip texture options
- Round groove, seamless wall baseboard option
- Aesthetic and glossy finish
- Meets CFIA requirements for use in food processing plants

### 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 423** : 5gal (18.9L) unit - 2A:1B

### CONSUMPTION

**ShineSTONE 423** : 150ft<sup>2</sup> / gallon at 10mils

### STANDARD COLORS

RAL 7038 Agate grey  
RAL 7046 Telegrey 2  
RAL 7012 Basalt grey

RAL 5007 Brilliant Blue  
RAL 1001 Beige  
RAL 3009 Oxide red  
RAL 6028 Pine Green



#### 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.



## PRODUCT DATA SHEET – SHINESTONE 423

### 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

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 2min30sec, making sure all solids are distributed evenly, until you obtain a complete mix.

### 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.

Spread **ShineSTONE 423** on the ground with a squeegee calibrated to the desired thickness. Make sure to spread and distribute the product on the floor evenly and avoid puddles.

### RESTRICTIONS

- Must be applied by licensed professional
- For indoor use only
- Min / max substrate temperature during application and curing: 15 / 30c, 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
- 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 30C
OPERATING TEMPERATURE	0 C to +60 C (continuous)
<b>CURING TIME</b>	
PEDESTRIAN	12hrs
LIGHT TRAFFIC	3 days
NORMAL TRAFFIC	7 days
EXPOSURE TO CHEMICALS	7 days
SHELF LIFE STORED AT 25 C	40 min
COMPRESSION STRENGTH ASTM D695	55 Mpa
TENSILE STRENGTH ASTM D638	7,6 Mpa
ELONGATION PERCENTAGE	22,10%
PULL-OFF ADHESION STRENGTH ASTM D7234	> 2 Mpa - Rupture substrat
SHORE HARDNESS D ASTM D2240	72-76
TABER ABRASION ASTM D4060 CS17/100 CYCLES/1000G (2,2 LB)	0,12g
THERMAL EXPANSION ASTM D696	1,07 x 10 <sup>-4</sup> mm/mm/C
WATER OBSERVATION ASTM C413	0,30%
RESISTANCE TO FUNGI ASTM G21	1 (>10% growth)
RESISTANCE TO GROWTH OF MOLD ASTM D3273	10 (maximum resistance)

*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*