

TECHNICAL DATASHEET – SHINESTONE 423

DESCRIPTION

ShineSTONE 423 is a colored and glossy general-purpose epoxy coating, 100% solid, two-component, designed to protect concrete substrates. It will provide a smooth or textured finish as desired.

AREA OF APPLICATION

- Epoxy decorative flooring systems (flakes, quartz, solid color)
- Commercial: stores, supermarkets, recreation centers, shopping malls, commercial kitchens, banks, sports complexes, and stadiums Locker rooms, showers
- Pharmaceutical laboratories, veterinary centers, agricultural production
- Offices, administrative buildings
- Hospitals, schools, museums, and galleries
- Clean rooms and sanitary areas
- Food service areas
- Light to medium manufacturing plants
- Processing plants and warehouses
- Retail stores
- Airplane hangars

ADVANTAGES

- 100% Solid, VOC-free
- Protects concrete substrates from abrasion and corrosion
- Superior adhesion
- Seamless coating allows for waterproofing and protection against moisture penetration
- Hygienic and easy to clean
- Superior chemical resistance
- Variety of anti-slip texture options
- Option for coved base without joints
- Aesthetic and glossy finish
- Meets CFIA standards.



ANTIMICROBIAL TECHNOLOGY

Our flooring coatings are designed to minimize the growth of harmful microbes by providing a cleaner surface between cleanings through their hydrophobic nature and bacteriostatic properties. This protection reduces the risk of microbial growth by limiting the spread of viruses, microbes, 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, at a temperature between 16°C and 30°C. Avoid prolonged exposure to freezing and sunlight. Shelf life of 2 years in original containers

PACKAGING

ShineSTONE 423 : Unit of 5L (1,32G) – 2A:1B

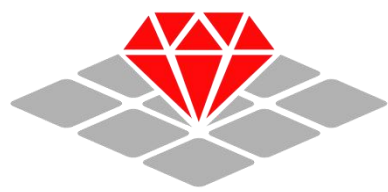
COVERAGE

ShineSTONE 423 : 135ft² per unit at 15mils

STANDARD COLORS

RAL7038 agathe grey
RAL 7046 Telegris no2
RAL 7012 Basalt grey

RAL 5007 Bright blue
RAL 1001 Beige
RAL 3009 Oxyde Red
RAL 6028 Green Pine



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DIRECTIONS

SURFACE PREPARATION

Thoroughly dust off and eliminate any traces of contaminants such as dirt, paint, efflorescence, laitance, oil, grease, biological residues (fungi, molds), or any other contaminant that may affect adhesion. Concrete surfaces must be clean and sound. Mechanically prepare by shot blasting to achieve an ICRI CSP 3 to 6 profile. The substrate compressive strength must be at least 25MPA (3625 psi) at 28 days, and the concrete compressive strength must be at least 1.5MPA (218 psi). Repairs to the substrate must be carried out using appropriate products compatible with the manufacturer's product line. Contact DiamondSTONE sales service for recommendations. Create saw cut grooves around the perimeter of the surface, doorways, around drains and channels, and at the junction with other coatings. The grooves should be twice as deep as the thickness of the coating.

MIXING OF THE PRODUCT

Only mix complete units. Condition the materials at a temperature between 16 and 22°C, at least 24 hours before use.

1. Mix Part A with the pigments for 1 minute.
2. Add Part B and mix for 2 minutes, making sure that all liquids are evenly distributed, until a complete mix is achieved.

INSTALLATION

Before proceeding with the application, measure and confirm the following variables: substrate moisture content, 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 necessary to prevent the possibility of blistering, delamination, pinholing, and other aesthetic variations.

Spread ShineSTONE 423 on the floor using a calibrated scraper to achieve the desired thickness. Take care to evenly spread and distribute the product on the floor and avoid pooling.

PRECAUTIONS

- Must be applied by authorized professional applicators
- For interior use only Minimum / maximum substrate temperature during application and curing: 15°C / 28°C, at least 3°C above the dew point
- Maximum 85% relative humidity during installation and curing
- Maximum 4% moisture content in the slab when the coating is applied
- Mechanical mixing only
- Protect from moisture for the first 24 hours
- Color choice will impact consumption and coverage.
- Light or bright colors may require a thicker wet film thickness or multiple coats.
- Keep out of reach of children.

APPLICATION TEMPERATURE	15C to 30 C
SERVICE TEMPERATURE	0 C to +60 C (continue)
CURING DELAY	Regular / Fast-Cure
PEDESTRIAN TRAFFIC	12 heures / 3 heures
LIGHT TRAFFIC	3 jours / 1 jour
NORMAL TRAFFIC	7 jours / 3 jours
EXPOSURE TO CHEMICALS	7 jours / 3 jours
POT LIFE AT 25 C	40 min
COMPRESSIVE STRENGTH ASTM D695	55 Mpa
TENSILE STRENGTH ASTM D638	7,6 Mpa
ELONGATION	22,10%
TENSILE STRENGTH ASTM D7234	> 2 Mpa
HARDNESS SHORE D ASTM D2240	72-76
ABRASION RESISTANCE CS17/1000 CYCLES/1000G (2,2LBS) ASTM D4060	0,12g
THERMAL EXPANSION COEFFICIENT ASTM D696	1,07 x 10 ⁻⁴ mm/mm/C
WATER ABSORPTION ASTM C413	0,30%
RESISTANCE TO FUNGAL GROWTH ASTM G21	COTE 0
RESISTANCE TO MOLD GROWTH ASTM D3273	COTE 10

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