

## TECHNICAL DATASHEET— DIAMONDSEAL 650

### DESCRIPTION

**DiamondSEAL 650** is a two-component, transparent and non-yellowing polyaspartic finishing coating. It offers excellent abrasion resistance, low odor, high solids content, and low VOC. This system provides a smooth and aesthetically pleasing finish.

### AREA OF APPLICATION

The DiamondSEAL 650 is recommended for projects that require a quick-setting primer, binder, or sealer for concrete with UV resistance. It is ideal as a finishing coat for decorative Quartz and Vinyl Flake coatings in the DiamondSTONE range, providing a smooth and aesthetically pleasing finish.

### ADVANTAGES

- Quick-setting;
- Very low odor;
- Seamless and waterproof product;
- Resistant to chemicals, corrosives, alkalis, salts, amines, solvents, and organic and inorganic acids;
- Provides protection against UV rays;
- Aesthetic and smooth finish;
- Requires minimal maintenance;
- Compliant with VOC regulatory requirements;
- Meets ACIA and USDA requirements for use in food processing plants

### STORAGE

Store all components in a dry place, at a temperature between 4°C and 30°C. Avoid prolonged exposure to freezing temperatures and sunlight. Shelf life of 2 years in original containers.

### PACKAGING

DiamondSEAL : Unit of 5L (1.32G) /3A : 2B

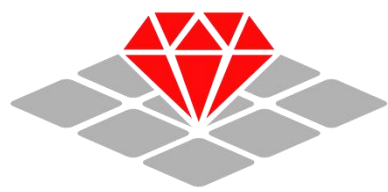
### COVERAGE

***DiamondSEAL 650: 135ft<sup>2</sup> per unit at a thickness of 15 mils***  
(These data do not take into account porosity, profile, or wastage.)

APPLICATION TEMPERATURE	4C à 30 C
SERVICE TEMPERATURE	0C à +60 C (continue)
<b>CURING TIME</b>	At 20c
PEDESTRIAN TRAFFIC	2h
LIGHT TRAFFIC	4h
FULL CURE	5 days
<b>TENSILE STRENGTH</b>	17 Mpa
ASTM C307	
<b>ELONGATION</b>	55%
ASTM D638	
<b>HARDNESS SHORE D</b>	75-80
ASTM D2240	
<b>TENSILE STRENGTH</b>	3 Mpa (Concrete failure at 100%)
ASTM D7234	

<b>POT LIFE</b>	10 min
20 C	
<b>ABRASION RESISTANCE</b>	
ASTM D4060	
CS-17/ charge of 1000 g (2,2 lb)/1000 cycles)	50 mg
<b>COV CONTENT</b>	< 50 g/L





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### DIRECTIONS

### SURFACE

### PREPARATION

Thoroughly remove any dust and eliminate all traces of contaminants such as dirt, paint, efflorescence, laitance, oil, grease, biological residues (fungi, molds), or any other contaminants that could affect adhesion. Concrete surfaces must be clean and sound. The concrete must be mechanically prepared to provide a textured surface for superior adhesion between the primer and substrate. The compressive strength of the concrete substrate must be at least 24 MPa (3,500 psi) at 28 days, and the tensile strength must be a minimum of 1.5 MPa (215 psi) at the time of application. Before proceeding with the application, measure and confirm the following variables: substrate moisture content (less than 4%), relative ambient humidity (30% to 75%), ambient and surface temperature, and dew point (+3°C).

### MIXING OF THE PRODUCT

Mix only complete units.

Condition materials at a temperature between 18 and 24°C, for at least 24 hours before use. Mix parts A and B mechanically for at least 3 minutes at a ratio of **(A:B = 1.5:1)**. Mix until a uniform mixture is obtained. Use proper equipment to minimize the chance of air bubbles occlusion during mixing.

### INSTALLATION

To apply the DiamondSEAL 650 as a **topcoat** for decorative systems with quartz/flakes, use a scraper to apply the product at a thickness of 10 to 15 mils, then roll to even out the product.

#### FAST-CURE DECORATIVE QUARTZ/FLOCONS SYSTEM

1. Apply a first coat at a thickness of 5 to 10 mils using a trowel, then roll to even out the product;
2. Apply a second coat at a thickness of 10 to 15 mils using a trowel, then roll to even out the product. Spread the vinyl flakes or Quartz aggregates by hand to cover the entire surface. Let dry for 4 to 8 hours, then remove excess from the surface;
3. Apply a third coat at a thickness of 10 to 15 mils using a trowel, then roll to even out the product. Spread the vinyl flakes or Quartz aggregates by hand to cover the entire surface. Let dry for 4 to 8 hours, then remove excess from the surface;
4. Apply DiamondSEAL 650 at a thickness of 10 to 15 mils using a trowel, then roll to even out the product and provide a finishing layer.

### CLEANING

Before the product has dried, the equipment can be cleaned with xylene..

### PRECAUTIONS

- Installation by certified applicators required;
- Mechanical mixing only;
- Install when ambient temperature is decreasing to reduce the risk of pinholes;
- Protect from water and humidity for 72 hours after installation;
- Do not install on surfaces exposed to freeze/thaw cycles;
- Does not provide negative waterproofing;
- Prolonged or direct heat sources can affect the coating;
- Ensure good air filtration to ensure a smooth and aesthetic finish;
- Keep out of reach of children.

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