

CrownAccent™

Product Description Sheet No. 328 – Epoxy
Product Description Sheet No. 329 – Polyurea

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Decorative Floor Coating with a “Stained Look” for Commercial, Institutional, Industrial and Residential Use

Description

CrownAccent is a two-component translucent epoxy or polyurea polymer floor system. Each coating formula is a 100% solids, 100% reactive polymer, with nearly no odor during application. It's a low viscosity coating system that is protective, stylist and customized to each customer desires.

CrownAccent deposits the translucent pigment on the aggregate and penetrates into the cement molecules. The coating is then top coated with a clear polymer coating to highlight the translucent pigment and provide an anti-slip surface profile. A complete monolithic attachment to the concrete is achieved with CrownAccent providing a longer life cycle than other stained methods.

Application Methods

The mixed polymers are applied as a neat protective coating, over cleaned concrete surfaces. The products are squeegeed and back rolled onto the concrete surface.

Polymer Choices

For areas with no UV exposure use the epoxy formulas -

Base coat:

CrownAccent, Product No. 328

Top coat:

Crown Clear, Product No. 326 or CrownPro 4 or 6, Product No's.330 & 333

For areas with UV exposure use a polyurea:

Base coat:

CrownAccent, Product No. 329

Top coat:

CrownPro 4 or 6, Product No's.330 & 333

Use

Used in decorative, commercial, institutional, industrial and residential indoor or outdoor applications where the “Stained Look” is desirable to enhance the surrounding environment.

Benefits

CrownAccent creates an artistic semi translucent dense and beautiful seamless coating and wear surface over concrete. It requires only a single grind and coating, whereas polishing methods require multiple grinds, very labor intensive. CrownAccent is very economical for the installation and long-term maintenance. It is easy to maintain. It requires no waxing. It protects the concrete surface from spills and abrasion. In addition, it increases the durability and life cycle. It cures down to 40°F (5°C).

Advantages

- Complies with USDA, FDA, OSHA, ADA and LEED® “Green” requirements
- Great working time
- No VOC's – Non-shrink formulas
- Excellent strength properties
- Excellent impact and abrasion resistance
- Sustainable and renewable top coat

Typical Coverage

Base coat: 10 Mills (160 ft² / Gal.)

Top coat: 10 Mills (160 ft² / Gal.)

Typical Data for CrownAccent

Material and curing conditions at 73°F (23°C), 50% R.H unless noted.

COLOR Clear **VISCOSITY** 600 – 1,200 cps.

MIX RATIO BY VOLUME Comp “A” 2 to Comp “B” 1

POTLIFE 15-25 minutes **CONSISTENCY** Nearly Self-Leveling

SURFACE USEABILITY – Substrate Temperature 60°F

Recoat 4 – 6 hours

Pedestrian use 6 – 8 hours

Vehicular traffic use 24 hours

TENSILE PROPERTIES (ASTM D638) 7 days

Tensile Strength 6,850 psi

Elongation at Break 6 - 8 %

FLEXURAL PROPERTIES (ASTM D790) 7 days

Flexural Strength 9,000 psi

Tangent Modulus of Elasticity 620,000 psi

SLANT SHEAR STRENGTH (ASTM C882) 7 days

Test Temperature	Value	Mode of Failure
50°F	4,300 psi	100% Concrete Failure
90°F	4,350 psi	100% Concrete Failure

COMPRESSIVE STRENGTH (ASTM D695) Neat Polymer

	50°F	73°F	90°F
8 hour	3,200 psi	5,300 psi	8,300 psi
1 day	6,400 psi	9,200 psi	9,600 psi
7 days	12,100 psi	12,700 psi	12,900 psi

HARDNESS (INDENTATION - ASTM D2240)

Neat Epoxy, 7 day cure, Durometer, Shore D 79

INDENTATION (LOAD - MIL-D-3134, Para. 4.7.4.2.1)

EPC, 7 day cure, Method: 1 in. diameter steel ram steadily applies a load of 2,000 lbs. for 30 min. on the test specimen that is placed on concrete. Value - 0.006 in. indentation

INDENTATION (IMPACT - MIL-D-3134, Para. 4.7.3)

EPC, 7 day cure, Method: 2 lb. steel ball is dropped twice from a 8 ft. height. Value - 0.016 in. indentation

ADHESION TO CONCRETE (TENSILE PULL - ACI 503 R)

EPC, 7 day cure, - 400 psi, 100% concrete failure

ABRASION RESISTANCE (TABER - ASTM D 4060) EPC,

7 day cure, 1,000 cycles, 1,000 g. load, Wheel No. 17, Loss 0.04 g

WATER ABSORPTION (ASTM D 570)

EPC, 7 day cure, max. 0.21%

COEFFICIENT OF THERMAL EXPANSION (ASTM D696)

Temperature Range -30°C (-22°F) / 30°C (86°F)

7 days 16.0 X 10⁻⁶ in / in./°F

FLAMMABILITY (ASTM D635)

7 day cure, self-extinguishing

SHELF LIFE 1 year in original unopened containers

PACKAGING 3, 5, 15 Gal/Units

How to Apply CrownAccent™

Create that Custom Look!

Leave the laitance in place, partially remove the laitance, or remove the laitance. It's your choice. You select the look that best fits your projects atmosphere. The more cement paste that is left on the concrete surface, the more penetration of CrownAccent into the concrete. Each degree of cement paste that is left or removed creates a new look. There is no right or wrong as long as your concrete surface is clean and sound. Apply a test area to ensure that the application meets the customer's expectations.

Surface Preparation

Concrete must be clean, sound, and free of dust, grease, waxes, coatings, curing compounds and all contaminants. Typical removal methods include dust-free abrasive shot blasting and grinding.

Test Substrate For Cleanliness and Adhesion

Before placement of the polymer overlay, test the cleaned concrete substrate for soundness and cleanliness with a Tensile Pull Test ACI 503 R (min.200 psi) or Crown Polymers Surface Shear Test. 100% concrete must fail to pass either test without bond line failure.

Preconditioning Polymer

When temperatures drop, polymers typically thicken and it becomes harder to flow or to spread the product. When the temperatures are warmer, they typically become thinner. To improve product flow-ability maintain product temperature before mixing at about 20°C (73°F). When the substrate temperature is 5°C (40°F) or lower, preheat each epoxy component to 32°C (90°F) before mixing. Caution the pot life will be reduced by about 50%. It may be necessary to reduce the mixed volume quantity of the batch.

Mixing

Pour Component "B" into "A" and mix for approximately 90 seconds (until one even color develops) with a low speed paddle attached to a drill (400-600 rpm). The mixed product is ready for immediate placement.

Coverage

Product coverage is depended upon the existing substrate surface profile and thickness of the designed system. Refer to Crown Polymers Application Method Guide and Specifications.

Application Methods

Refer to Crown Polymers Application Method Guide and Specifications.

Limitations

- Substrate temperature must be 3°C or 5°F above measured dew point temperature.
- Minimum application substrate temperature is 10°C (50°F).
- **DO NOT APPLY on WET or MOIST (DAMP) SUBSTRATE discoloration could occur.**
- **DO NOT THIN** - solvents could prevent proper cure.
- **EPOXY WILL AMBER WHEN EXPOSED TO UV ENVIRONMENTS.**
- Pre-condition polymer as needed.
- Applied the next polymer lift within 24 hours if the ambient temperature is below 85°F and 18 hours if above 85°F.
- Withstands vapor pressure up to 3 lbs/1,000 ft². Request data.

Maintenance

For maximum life expectancy, routinely sweep and wash floors with appropriate cleaners and detergents. All chemicals or abrasive grit should be removed as soon as possible.

Customer Satisfaction

Apply the entire overlay system to a test area to ensure that the application meets the customer's expectations or provide a sample for written approval before starting work.

Caution

Component "A" - Irritant

Read the Material Safety Data Sheet

Component "B" - Corrosive

Read the Material Safety Data Sheet

Important Information

Use safety goggles and chemical-resistant gloves. NIOSH/OSHA approved respirator, and adequate ventilation is recommended when in a confined air space.

Clean Up

In case of spills wear suitable protective equipment, contain spill, and collect with absorbent material, place in suitable container. Ventilate area. Avoid contact. Dispose according to applicable local, state, and federal regulations.

First Aid

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact Physician Immediately. Wash clothing before re-use.

Consult Material Safety Data Sheet for More Information before use.

**FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF
CHILDREN
KEEP CONTAINERS TIGHTLY
CLOSED**

LIMITED WARRANTY - "Crown Polymers, LLC warrants its products to be free of manufacturing defects, to be of good quality, and that they will meet Crown Polymers current physical published properties when applied in accordance with Crown Polymers written directions and tested in accordance with ACI, ASTM and Crown Polymers Standards. Product proved to be defective will be replaced. **There are no other warranties by Crown Polymers, LLC of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product.** Crown Polymers, LLC shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, from any other cause whatsoever. Crown Polymers will not be responsible for use of this product in a manner to infringe on any patent held by others."

For the Location of Your Nearest Crown Polymers Representative - CALL NATIONWIDE TOLL-FREE 1.888.732.1270



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