



CROWN MICA™ SL

SELF LEVELING / DUST FREE APPLICATION

THE INDUSTRY'S ONLY DUST FREE MICA FLOOR OVERLAY SYSTEM

As beautiful as Mica floor overlays can be, severe dusting during application has always been a serious industry - wide problem. Because of difficult dusting and installation problems, many architects, building owners, contractors and installers have been reluctant to specify products containing Mica. Now, however, the technical experts at Crown Polymers have solved the dusting problem and have introduced the industry's exclusive dust-free formulation.

Easy to apply CrownMica™ SL creates a stunning visual impression and offers virtually unlimited creative possibilities!

- Dust-free Application
- No VOCs -100% Solids
- LEED Green
- Nearly Odorless
- USDA, FDA, OSHA & ADA Compliant



Golden 1/8"



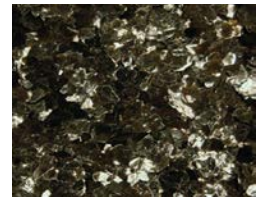
Copper 1/8"



Bronze 1/8"



Chrome 1/8"



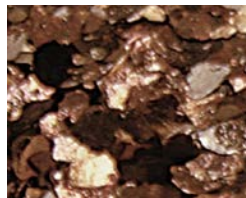
Ash 1/8"



Golden 3/8"



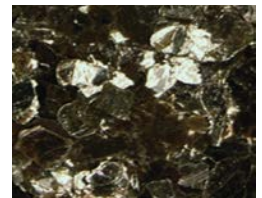
Copper 3/8"



Bronze 3/8"



Chrome 3/8"



Ash 3/8"



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crownpolymers.com 888.732.1270 Toll-Free

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SELF LEVELING / OUST FREE APPLICATION

Application Methods:

The mixed self-leveling epoxy is applied with gauge rakes as a prefilled protective polymer overlayment, over stained concrete surfaces, tile, and polymer overlays.

Use:

Used in decorative, commercial, institutional, industrial and residential applications where the existing concrete needs to be hidden from stains or patches, protection from wear, or water and chemical proofing. The finished surface can provide a smooth or aggressive textured profile surface for anti-slip environments.

Benefits:

CrownMica SL creates one of the most attractive, colorful, dense seamless polymer overlayment wear surfaces available. The combination of qualities that make it pleasing and impressive to look can be customized to one of a kind look. It is easy to clean and maintain. It requires no waxing. Adding anti-skid profiling to the finished surface improves and protects the overlayment increasing its durability and life-cycle. Multiple top coats can accent some of the CrownMica SL overlayment looks and provide added wear ability with an in-depth look that enhances its beauty. It cures down to substrate temperatures of 40°F (5°C).

Advantages :

- Complies with USDA, FDA, OSHA, ADA and LEED® "Green" requirements
- One of our best UV stable epoxy formula
- Nearly no odor during application
- No VOC's -100% solids formula
- Moisture-insensitive formula
- Excellent strength, impact & wear properties

Typical Application Rates:

The typical application requires CrownMica SL, Product No. 317 applied at 1/16 inch (1.6 microns) thick and a 10-15 mil (250-375 microns) thick coat of a clear epoxy, Crown Clear, Product 326, or polyurea, CrownPro, Products 332 or 334 when UV resistance is required.

A prime coat is required when the concrete is porous or needs to be strengthened. Use CrownPrime, Product No. 302 a 10 mil (250 microns) thick coat.

A Vapor Barrier is required when the vapor transmission exceeds 3 lbs./1,000 ft² in 24 hours. Use CrownCote Vapor Barrier, Product No. 303 at the recommended rate.

Typical Data for CrownMica™ SL

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

COLOR:

As Selected

VISCOSITY:

Varies with Mica blends.

MIX RATIO BY VOLUME:

Comp "A" 2 to Comp "B" 1

POTLIFE:

25 - 35 minutes

CONSISTENCY:

Self-Leveling

TACK-FREE TIME:

Substrate Temperature
40°F (5°C) 10 - 12 hours
73°F (20°C) 6 - 8 hours
90°F (32°C) 5 - 7 hours

TENSILE PROPERTIES:

(ASTM 0638) 7 days
Tensile Strength: 8,800 psi
Elongation at Break: 5 %

FLEXURAL PROPERTIES:

(ASTM 0790) 7 days
Flexural Strength: 16,000 psi
Tangent Modulus of Elasticity: 510,000 psi

SLANT SHEAR STRENGTH:

(ASTM C882) 7 days

Test Temperature: 50°F (10°C)

Value: 4,000 psi
Mode of Failure: 100% Concrete Failure

Test Temperature: 90°F (32°C)

Value: 4,200 psi
Mode of Failure: 100% Concrete Failure

COMPRESSIVE STRENGTH

(ASTM 0695) Neat Polymer

8 hour

50°F (10°C) 3,700 psi
73°F (20°C) 6,300 psi
90°F (32°C) 10,300 psi

1 day

50°F (10°C) 10,100 psi
73°F (20°C) 10,200 psi
90°F (32°C) 10,300 psi

7 days

50°F (10°C) 14,100 psi
73°F (20°C) 14,200 psi
90°F (32°C) 14,200 psi

COMPRESSIVE STRENGTH

(ASTM C579)
7 days
EPC: 11,500 psi

HARDNESS:

(INDENTATION - ASTM 02240)
Neat Epoxy, 7 day cure, Durometer,
Shore D80

INDENTATION:

(LOAD - MIL-0-3134, 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 - 0.004 in. indentation

INDENTATION:

(IMPACT - MIL-0-3134, Para. 4.7.3)
EPC, 7 day cure, Method: 2 lb. steel ball is
dropped twice from a 8 ft. height.
Value - 0.012 in. indentation

ADHESION TO CONCRETE:

(TENSILE PULL - ACI 503 R)
EPC, 7 day cure, - 410 psi,
100% concrete failure

ABRASION RESISTANCE :

(TABER - ASTM D4060) EPC,
7 day cure, 1,000 cycles, 1,000 g. load,
Wheel No. 17, Loss 0.051 g

WATER ABSORPTION:

(ASTM D570)
EPC, 7 day cure, max. 0.15%

COEFFICIENT OF THERMAL EXPANSION:

(ASTM 0696)
Temperature Range
-22°F (-30°C) / 86°F (30°C)
7 days
18.0X 10⁻⁶ in./in.°F

FLAMMABILITY :

(ASTM 0635)
EPC, 7 day cure, self-extinguishing

SHELF LIFE:

1.5 years in original unopened containers

PACKAGING:

PK4 Kit



Crown Polymers, Corp.

11111 Kiley Drive

Huntley, Illinois 60142

info@crownpolymers.com