

CrownShield[®] Line Striping

Product Description Sheet No. 359

Rapid Curing Industrial Strength Epoxy Line Striping

Description

CrownShield[®] Line Striping (Product No 359) is a 100% solids, non-shrink, moisture-insensitive, two-component modified high-modulus smooth epoxy coating formulated to adhere and cure on damp or dry wood, steel and concrete surfaces.

Advantages

- Rapid curing for in thin film applications.
- Cures and adheres on dry or damp concrete surfaces.
- Tack-Free in approximately 4 to 6 hours.
- Low to nearly no odor.
- Convenient 2 to 1 volume mix ratio.
- Apply by roller or airless spray equipment.
- Applicable / Curable down to 4°C (40°F).
- Non-blush system.
- Double abrasion life cycle by adding Aluminum Oxide when applying line striping.

Where to Use

- Use on industrial, retail, commercial and parking garage surfaces where normal line striping materials wear off in short periods of time.
- Use where safety lines or directional traffic guidelines are required.

Shelf Life

1.5 years in original unopened containers.

Typical Data for CrownShield Line Striping

(Material and Curing Conditions at 73°F unless noted, 50% R.H.)

COLOR Safety Yellow & Safety Red

WORKING TIME 10 - 15 minutes

CONSISTENCY Liquid Mid-Viscosity

TACK-FREE TIME

Substrate Temperature	40°F	55°F	73°F
	8-10 hrs.	6-8 hrs	4-6 hrs

TENSILE PROPERTIES (ASTM D638) 7 Days

Tensile Strength	7,400 psi
Elongation at Break	2.1 %

FLEXURAL PROPERTIES (ASTM D790) 7 Days

Flexural Strength	11,600 psi
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WATER ABSORPTION (ASTM D570)

24 hours	0.35%
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DEFLECTION TEMPERATURE (ASTM D648) 7 DAYS

Fiber Stress Loading = 264 psi	180°F
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HARDNESS, 7 Days

Indentation – Shore D (ASTM D2240) Neat 82

TYPICAL LINEAR FOOT YIELDS / 1 GALLON

Width of Line	6 mils Thick	10 mils Thick
3 inches	1,068	640
4 inches	800	480
5 inches	640	384
6 inches	534	320

How to Apply CrownShield Line Striping

Surface Preparation

All substrate surfaces must have all loose and deterioration removed to a sound surface. Concrete and other substrates must be clean, sound, and free of dust, grease, waxes, coatings, curing compounds and all contaminants. Typical removal methods include dust-free abrasive blasting.

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 the flow-ability maintains product temperature before mixing at about 20°C (73°F). When the substrate temperature is 15°C (60°F) or lower, preheat each epoxy component to 90°F before mixing. Caution the pot life will be reduced by about 50%.

Consult Safety Data Sheet for More Information

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

Mixing

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

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 temperature is 5°C (40°F).
- DO NOT APPLY on WET SUBSTRATE.
- DO NOT THIN - solvents could prevent proper cure.
- Pre-condition polymer as needed.

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.

Caution

Component "A" - Irritant

Contains epoxy resins. Prolonged contact with skin may cause irritation. Avoid contact with eyes.

Component "B" - Corrosive

Contains aliphatic/cycloaliphatic amines. Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer

Important Information

Use of safety goggles, chemical-resistant gloves, adequate ventilation and NIOSH/OSHA approved respirator is recommended.

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.

LIMITED WARRANTY - "Crown Polymers Corp. warrants its products to be free of manufacturing defects, to be of good quality, and that they will meet Crown Polymers current published physical 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 Corp. 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 Corp. 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."

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