

POLYARMOR® EP Line Stripe

Traffic Line Epoxy

APPLICATION

CHARACTERISTICS

STORAGE: Materials should be stored in original un-opened containers indoors between 65°F (18°C) and 90°F (32°C) and at or below 50% RH.

SHELF LIFE: Un-opened containers 1 year from date of manufacture.

PACKAGING KITS/ PART NUMBERS:
Volume Mix Ratio: 2A: 1B

POLYARMOR® EP LINE STRIPE-1003
Safety Yellow .75 gallons
POLYARMOR® EP LINE STRIPE-1003
-A/1, POLYARMOR® EP LINE STRIPE
-B/Q
POLYARMOR® EP LINE STRIPE-3001
Safety Red .75 gallons
POLYARMOR® EP LINE STRIPE-3001
-A/1, POLYARMOR® EP LINE STRIPE
-B/Q
POLYARMOR® EP LINE STRIPE-9010
Safety White .75 gallons
POLYARMOR® EP LINE STRIPE-9010
-A/1, POLYARMOR® EP LINE STRIPE
-B/Q

Also available in other standard and custom colors and in bulk kits.

LIMITATIONS:

Contamination and surface defects (fisheyes): If contaminates of oils, silicones, mold release agents and/or others are present, POLYARMOR® EP LINE STRIPE may fisheye or crawl away from the surface. Surface contaminates should be removed with a suitable detergent prior to application. Solvent cleaning of silicone contaminates may make the situation worse; please contact the lab for additional recommendations.

RECOMMENDED

APPLICATION

20 mils
80 sq. ft. per gallon at 20 mils WFT.
2.0 sq. m. per liter at 500 microns.
One kit (.75 gallons) of mixed POLYARMOR® EP LINE STRIPE (pigmented) will cover 60 sq. ft. (1.5 sq. m) at 20 mils WFT (500 microns).
One kit (.75 gallons) of mixed POLYARMOR® EP LINE STRIPE (pigmented) will cover 180 lineal feet (54.9 m) at 4 inches (10cm) wide at 20 mils WFT (500 microns).



For More Information:
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POLYARMOR® EP LINE STRIPE is a two component "High Build" pigmented epoxy "Traffic Line" marking. POLYARMOR® EP LINE STRIPE provides a permanent, thick safety traffic line that will outwear standard traffic line paint. This product produces a very durable Gloss finish.



APPLICATION

MIXING: Premix all components at slow speed prior to mixing together. Use a Jiffy® ES mix blade attach to a slow speed drill (using a paint stick to mix is not adequate). Mix only enough material at one time not to exceed the pot life. **Note:** Once this material is opened and mixed it can't be resealed for later use.

MIX: Mix all components together for 2-3 minutes. **DO NOT THIN!**

APPLY POLYARMOR® EP LINE STRIPE: at a rate of 20 mils (80 sq. ft. per gallon) to the floor surface pouring the mixed resin between two stripes of reinforced masking tape. Back roll the wet coating using a ¼ inch nap mohair roller. Remove masking tape soon after (30 minutes) the POLYARMOR® EP LINE STRIPE has been applied. This will allow the POLYARMOR® EP LINE STRIPE to flow slightly and have a nice crisp edge.

SPREADING RATE: Material applied too heavy may retain air or can be soft during curing. Too light Polyarmor® EP Line Stripe material may produce a non-uniform look.

CURING (DRYING): Allow the coating to cure (dry) for a minimum 24 hours after application at 75°F (24°C) and 50% RH before opening the floor to light traffic, allow more time for low temperatures and higher humidity or for heavier traffic. Full coating properties may take up to 7 days to develop.

TECHNICAL SUPPORT: For application questions, please contact your VISURON TECHNOLOGIES, INC. salesman or technical service.

DISPOSAL: Dispose in accordance with federal, state, and local regulations.

USES

Install POLYARMOR® EP LINE STRIPE in industrial warehouses and manufacturing areas to designate proper safety areas and traffic patterns.

ADVANTAGES

- High viscosity 100% solids pourable resin
- High build
- Excellent impact and abrasion resistance
- Hard, durable Gloss finish
- Available in standard safety colors
- Complies with VOC regulations for Industrial Maintenance Coatings in the OTC and CA.

APPLICATION EQUIPMENT:

- Protective equipment and clothing as called for in the MSDS.
- Jiffy® Mixer Blade model ES.
- Clean container to mix materials in.
- Low speed high torque drill motor.
- High quality short nap roller covers ¼ inch mohair.
- Application Squeegee or application trays.
- Disc sanding equipment with 80-100 mesh sanding screens.
- Vacuum equipment.

PREPARATION:

Surface dirt, grease, oil and contaminates must be removed by detergent scrubbing and rinsing with clean (clear) water.

Acid Etch (bare concrete): {Not recommended for high build coatings} Successive acid etch treatments may be required to obtain proper adhesion to concrete. Rinse with clean water and neutralize with TSP solution.

Shot Blasting (bare concrete): Is a preferred method of surface preparation. Modify blaster to minimize too heavy of a surface profile and over-lap marks.

Diamond Grind (bare concrete): Results of grinding may vary depending on technique and the hardness of the concrete.

JOINTS: All non moving joints (control joints) can be filled with a semi-rigid joint compound such as EJS-2000 or UJS-4000. Construction joints may need to be re-built and re-cut and then filled with semi-rigid joint filler. Isolation or expansion joints

must be filled with a flexible material designed for expansion and should not be coated over.

RECOAT: POLYARMOR® EP LINE STRIPE can be to be coated with other VISURON TECHNOLOGIES, INC. urethanes and is be used as a topcoat over existing (sound) VISURON TECHNOLOGIES, INC. epoxy coatings. The prior cured coating surface must be sanded with 100 grit sand paper. Sand to a uniform dulled surface. Remove all sanding debris with a vacuum and damp mop. Scrub with detergent and rinse with clean water. Surface must be dry before coating.

BARE CONCRETE APPLICATION: POLYARMOR® EP LINE STRIPE MUST BE APPLIED OVER AN EPOXY PRIMER (OR SURFACE). Use either EP-3250, EP-3340 or EP-4000/ECA-485 as the epoxy primer (See appropriate product data sheet for application instructions).

MATERIAL PROPERTIES*:

Properties	Test Method	Results
Flash Point	ASTM D3278	≥215 °F (102° C)
Volume Solids (mixed)	ASTM D2369	100 %
Mixed Viscosity	ASTM D2196	10,000 cPs
Dry Time	ASTM D5895	Tack Free 4 hr Dry 6-10 hr Full Cure 7 days
VOC-Volatile Organic Compound	ASTM D3960	0 g/l

CURED PROPERTIES*:

Properties	Test Method	Results
Abrasion Resistance Tabor CS-17, mg loss/1000 cycles/1000g mass	ASTM D4060	75 mg
Coefficient of Friction-COF James Test	ASTM D2047	0.5
Tensile Strength	ASTM D2370	8,000 psi
Adhesion to Concrete	ASTM D4541	350 psi concrete failure
Impact	ASTM D2794	20 in.lbs Direct & Reverse
Hardness (Shore D)	ASTM D2240	80
Dry Film Thickness	at 20 mils WFT	20 mils

*Properties and results are based on laboratory testing at 72°F (22°C) % 50 RH, theoretical calculations and estimates. Typical properties, as stated, are to be considered as representative of current production and should not be treated as specifications.

INSPECTION AND APPLICATION:

Caution! Follow all precautions and instructions prior to installation.

CHECK THE SUBSTRATE CONCRETE: Substrate concrete must be free of curing membrane, silicate surface hardener, paint, or sealer and be structurally sound. If you suspect the concrete has been treated or sealed, prepare substrate for complete removal of treatment.

CHECK FOR MOISTURE: Concrete must be dry before applications of this floor coating. Test concrete for moisture vapor transmission (MVT) using calcium chloride testing ASTM F1869 or in-situ RH testing ASTM F2170. Do not exceed a maximum result of 3 pounds per 1000 sq. ft. over 24 hours or a value below 70% RH (internal concrete humidity).

EXCLUSION: Testing for MVT is critical, however it does not guarantee against future problems. If there is no vapor barrier or the vapor barrier is damaged, this can contribute to floor failure. Contamination to concrete from oils, chemicals, excessive salts or Alkali Silica Reaction (ASR) may also contribute to floor failure.

CHECK THE TEMPERATURE AND HUMIDITY: During the application and cure of the coating, the substrate temperature, material temperature and room conditions should be maintained between 65°F (18°C) and 90°F (32°C). Relative Humidity (RH) should be limited to 30-80%. DO NOT apply coatings unless the floor temperature is more than five degree over the dew point.