



UV-Line Striping

Item No: UVLS – 100 – 7

1. Description

DiamaPro® UV-Line Striping is a single component water-borne UV cured urethane that develops optimum bond and durability for a waterborne formulation. **DiamaPro® UV-Line Striping** is the pigmented layer of the system. **DiamaPro® UV-HS Plus** is the ultimate protection layer. The system is fully cured using high intensity ultraviolet light. This method of curing produces a very tightly cross-linked film to enhance the overall performance and to increase the service life. **DiamaPro® UV-Line Striping** is only available directly through a **DiamaPro® Authorized Distributor**.

DiamaPro® UV Cured Line Striping System

2-4 coats of **DiamaPro® UV-Line Striping**

1 coat of **DiamaPro® UV-HS Plus**

Available Colors

- Yellow - Black
- White - Green
- Red - Orange
- Blue

2. Recommended Uses

Where the client is expecting:

- Minimal down time
- Extreme Durability
- Low odor and VOC
- High level of chemical resistance

Environments:

- Warehousing / Industrial Facilities
- Convention Halls
- Automotive Service Areas

3. Technical Data

DiamaPro® UV-Line Striping

Appearance	Pigmented Liquid
Solids Content	~ 40%
Odor	Very Mild
Flash Point	>200°F
Shelf Life	12 months in proper storage
VOC	<100 g/l
Pot Life	Unlimited
Packaging	5 gallon pails
Dry Time	20-30 min/coat
	(Temp. dependent)
Clean up	Water before cured

Coverage Rate sq.ft./gal: Min. Max.

DiamaPro® UV-Line Striping 400 600

DiamaPro® UV-HS Plus 600 800

4. Limitations

DO NOT FREEZE. If frozen the material must be discarded.

The pigment in pigmented materials tend to settle if allowed to set without agitation. Power mixing with a drill and paddle is required to remove the settled material from the bottom of the container and blend with the base material. If not mixed thoroughly, a color shade difference between different containers could be noticed.

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Substrate must be sound, dry and free of bond inhibiting materials. During the application and initial cure, the substrate and ambient temperature must be 50°F and rising.

In humid and low temperature conditions moisture must not condense on the substrate. When high humidity (>75% Rh) is anticipated, provide additional air movement.

When curing, do not leave a hot curing light on the cured system. The heat from the curing light will have an adverse effect on the cured film and substrate.

Wear proper skin protection as chemicals can be an irritant to some workers.

5. Application Procedures and Instructions

Curing Equipment: HID Ultraviolet Bulldog 15-3000 is the recommended high intensity light to be used for curing all **Diamapro® UV** materials.

Mixing: Slowly power mix the material with a drill and paddle before use to ensure the settled pigment blends with the base material. Mix until completely uniform in color. When using multiple containers of the same color, use a separate larger container to keep mixing the next fresh container of material into the previous container. Power mix after each addition of fresh material. This will minimize the color shade difference between different batches of pigmented materials.

Surface Preparation: The substrate must be clean and free from bond inhibiting materials. The selected level of surface preparation will correlate to the systems long term performance.

The width of the prepared area should be at least ½” wider than the actual pigmented line stripe. This allows area on each side of the line to provide a bonding surface for the **Diamapro® UV-HS Plus** protective layer.

Level I (heavy abuse) – With a diamond grinding wheel (50-grit) clean the surface to obtain a uniform surface.

Level II (extreme abuse) – With a shot blaster fitted with the appropriate width reducer, prepare the area to be coated. The shot size and travel speed need to be determined while preparing the area. Every concrete substrate is different.

Application: Apply the 1st coat of **Diamapro® UV-Line Striping** with a 3/8” roller. The wet film should always be uniform with no puddling. Full color will not be obtained with only one coat.

Allow the **Diamapro® UV WB** to dry between 20-30 minutes. The material will dry to a tack-free surface when ready to accept the next coat. The color will appear non-opaque. It will be apparent another coat will be required.

Without any surface preparation apply the 2nd coat in the same manner as the 1st coat. The color will appear to have an opaque, solid appearance. Allow to dry for 20-30 minutes or



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until tack-free. If large course aggregate is exposed in the area to be coated, a third coat might be required to coat and hide the dark stone.

After the final coat of the pigmented line material has dried to a tack-free surface, apply one coat of **Diamapro® UV-HS Plus**. This is a high solids material and does not need to dry before curing.

Curing: On a small area test the curing light to determine if the speed is correct (25 fpm). The film will develop a hard, cured surface and develop its fully cured properties. Do not allow a hot curing light to set on the cured film. Always keep the light moving and never stop on a combustible surface.

Once the light has traveled over the installed line striping it will be ready for normal traffic. Over the next 4-6 hours it will reach its full cure.

6. Availability

All Diamapro® UV Cured Products are only available through **Diamapro® Systems Authorized Distributors**.

7. Conditions of Sale / Limited Warranty

Diamapro® Systems warrants this product for one year from date of purchase to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or

buyer's sole remedy shall be limited to the purchase prior replacement of this product exclusive of any labor costs at the discretion of **Diamapro® Systems**.

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8. Technical Services

The **Diamapro® Systems** office offers assistance with specifications, performance test data and field services.

9. Disclaimer

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