

Protection At The Speed Of Light

Why Diamapro[®] UV-HS Plus?

One of the most important parts of your building is the floor. If your floor isn't performing there could be a multitude of issues. A poor quality floor can create liability due to slips, falls, and equipment damage.

At what point can you state that your floor protection system has failed?

Peeling and bare concrete showing through the coating are all advanced stages of a coating failure but it had failed long before these have appeared. A coating has failed as soon as it can no longer be cleaned. Most facilities apply a floor coating to protect the substrate from the chemicals they utilize in the building. To be able to protect the floor the coating must be resistant to any and all chemicals used in the facility along withstanding the day to day physical abuse.

How a coating should be selected.

During the selection process installers should be providing you ample information for you to make an educated decision. Slip resistance, chemical resistance and amount of time the material needs to cure before use are all very important. An in-place mock-up should also be installed to evaluate the performance properties. Always test your chemical compounds on the mock-up in your facility during the evaluation process.

What is Diamapro[®] UV-HS Plus?

Diamapro[®] UV-HS Plus is formulated to protect a concrete floor with fast return to service time. Diamapro[®] UV-HS Plus is the complete package; withstanding extreme forklift traffic while also preventing chemical attack from oils, acids and caustics producing an easy to clean floor with minimal downtime. Whether your facility is an aviation hanger, grocery store, food processing plant, or an automotive service facility; Diamapro[®] UV-HS Plus has features that will provide a benefit to you,

your employees, and your facility.

Resistant to harsh chemicals.

Diamapro[®] UV-HS Plus has been tested against many harsh chemicals. Diamapro[®] UV-HS Plus has proven to show no signs of deterioration after a minimum of 12 hour exposure to the following substances: mustard, ketchup, vinegar, 32% hydrochloric acid, bleach, wax strippers, peroxide, gasoline, motor oil, Skydrol[®] LD-4 and many more. Diamapro[®] UV-HS plus can be tested against any chemical used in your facility that is not shown above on the installed mock-up. The secret to Diamapro[®] UV-HS Plus is the curing process. Most coatings cure over the course of several hours or even days. During this time, gases escape from the coating leaving an open pore structure on the molecular level. By curing with the use of ultraviolet light, Diamapro[®] UV-HS Plus has a very tight molecular structure enhancing the chemical and abrasion resistant properties.

What is Microban[®]?

As soon as you have completed your normal cleaning regimen the floor is put back into service. At that point dirt and grime begin to accumulate. Bacteria will double in numbers every 20 minutes. If you start with 100 bacteria cells in a matter of 5 hours you will have approximately 3.3 million cells and it rapidly goes up from there. Diamapro[®] UV-HS Plus contains Microban[®]. Microban[®] is a propriety antimicrobial additive that stops the growth of mold, mildew and bacteria. It attacks the reproductive system of the organism so it can no longer reproduce. Bacteria not only carry disease,

it also produces odors and visible stains.

Diamapro[®] UV-HS Plus starts working as soon as the initial bacteria hit the treated floor. This will help keep your floors cleaner between each cleaning providing a healthier environment.

Minimize downtime.

The method of curing a flooring resin has an impact on the durability of the protective film. Diamapro[®] UV-HS Plus is an ultraviolet light cured system. This method uses high intensity ultraviolet light to react with the resin to develop a very durable protective film. The method is not only extremely efficient but also fast. As soon as the material is applied a light is rolled over the material to cure at a rate as high as 3,000 sq.ft./hr. It's like cutting grass, you have long grass in front of the mower and short grass behind it. When curing, you have wet material in front of the light and cured material behind it. It's that fast! Now you can dramatically minimize your downtime and still have a high performance system installed.

Diamapro[®] UV-HS Plus is environmentally safe and requires minimal maintenance.

The amount of volatile organic compounds (VOCs) in Diamapro[®] UV-HS Plus is far below the most stringent state and federal required limits. There are no lingering odors or adverse health effects from the cured coating. And only routine scrubbing, sweeping, or mopping are required to maintain the Diamapro[®] UV-HS Plus surface.

**DIAMAPRO[®] UV-HS PLUS WITH MICROBAN...
A WHOLE NEW LEVEL OF PROTECTION**



Protected surface



Unprotected surface

Microban antimicrobial technology minimizes the growth and reproduction of harmful bacteria, mold and mildew. Microban is mixed into Diamapro UV-HS Plus during manufacture and works 24/7 to minimize the presence of microbes throughout the life of the topcoat.

Microban antimicrobial technology can minimize the presence bacteria which can extend the lifetime of the topcoat while keeping it cleaner in between cleanings. Antimicrobials are ideal for use in critical environments such as schools, hospitals and commercial kitchens.



Easy to Apply

Diamapro[®] UV-HS Plus is a single-component protective coating—no mixing multiple components is required, errors resulting from improper mix ratios are eliminated with unlimited material pot-life.

1. Defect Repair; all repairs should be completed prior to coating to produce a safe and easy to clean floor. The defect itself will dictate the type of repair material to be used. Depth and width of defect along with speed of cure will impact the material selection.
2. Surface Preparation; a concrete walk-behind grinder not only removes contaminants from the floor it provides a durable surface to bond to.
3. Material Application; with the use of a squeegee and roller, the material is applied at the correct application thickness.
4. Curing; a high intensity walk-behind, self-propelled ultraviolet light is moved over the wet material to produce a cured durable film. Up to 3000 sq.ft./hr. of cured film can be produced using one light.
5. Once cured, the area can immediately be put back into full service.

Employee and visitor safety in your facility will always be a very important issue. Keeping danger areas free from unwanted traffic or directing traffic within a safety zone is a method to ensure human safety.

Diamapro Line Striping is a UV Cured System that not only cures extremely fast to minimize downtime it also comes in many of the most widely used safety colors to outline hazardous areas. UV coated lines are more durable than tape.

Rejuvenation Process

Restoring a Diamapro[®] UV-HS Plus floor is easy and quick. Simply roughen the floor using a screen on a floor buffer, apply another coat of Diamapro[®] UV-HS Plus, and cure. No removal of the initial application is required.

Maintenance

Diamapro UV Cured Coatings are impervious to cleaners and do not become slippery after cleaning. Cleaning agents may be selected according to the contaminant to be removed and will not compromise the Diamapro[®] UV-HS Plus.

Safety

Diamapro[®] UV-HS Plus has a low VOC content of 3.0 g/l; well below the strictest state regulations in the United States. Inhalation and flammability hazards are essentially non-existent. The cured surface exceeds National Floor Safety Institute certifications for coefficient of friction, ensuring pedestrian safety.

Support

Certified Diamapro[®] UV Systems installers are available nationwide. If you would like to self-perform the installation, comprehensive, hands-on factory training in surface preparation, coating application and curing is available to ensure an efficient and high quality installation.



Diamapro UV-HS is one part, no mixing. It is available in one and five gallon units.