

Several yellow-outlined hexagons are scattered on the left side of the image. Some are simple hexagons, while others have double lines on one or two sides, representing chemical structures like cyclohexene or cyclohexadiene.

VYNGUARD®

ENGINEERED LACQUERS AND AQUEOUS FINISHES

FOR INDUSTRIAL FILMS, FABRICS & TEXTILES

MANUFACTURED BY:

APV
ENGINEERED COATINGS

AT APV, OUR DRAWING BOARD ISN'T A DRY ERASE WALL IN A TYPICAL CORPORATE CONFERENCE ROOM...

It encompasses 4,000 sq. ft. of fully equipped laboratories staffed with a team of acclaimed chemists and research scientists who specialize in chemical composition and innovative coating development.

This drawing board functions as the hub of a 15-acre manufacturing facility. It is outfitted with state-of-the-art equipment producing capacities from 5 to 6,000 gallon batch sizes.

FROM HERE WE COMMERCIALIZED VYNGUARD®, A COMPREHENSIVE RANGE OF ADVANCED CUSTOM COATING SOLUTIONS FOR INDUSTRIAL FABRICS AND TEXTILES FOR THOSE LOOKING FOR ANYTHING FROM:



UV RESISTANCE



ANTI-MICROBIAL/
PINK STAIN BLOCKING



WATER REPELLENCY



SOFT TOUCH HAPTICS



STAIN RESISTANCE



ABRASION RESISTANCE



CHEMICAL
RESISTANCE



WATER-BASED



SELF CLEANING



PROP 65 COMPLIANCE



PRINT RECEPTIVITY



LONG LIFECYCLE



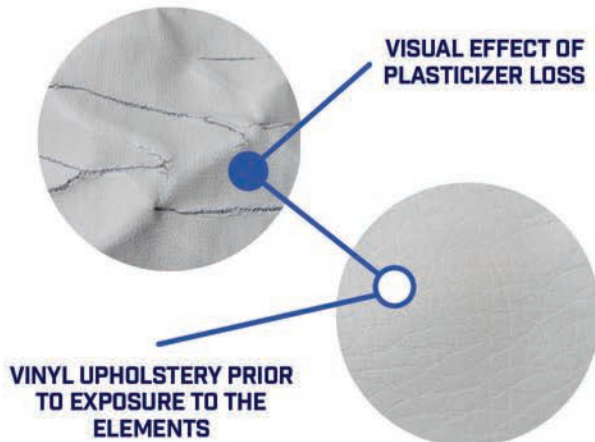
BARRIER TO
PLASTICIZER
MIGRATION



GLOSS RETENTION

UV DEGRADATION & PLASTICIZER MIGRATION ARE MAJOR ISSUES FOR OUTDOOR VINYL...

Ultra violet rays significantly reduce the service life of the material by accelerating the rate of plasticizer migration and causing oxidation on the surface. Eventually the vinyl will degrade and create a brittle, cracked surface highly susceptible to dirt pickup and mold growth.



WHEN ENGINEERED PROPERLY, HIGH PERFORMANCE LACQUERS AND COATINGS ARE CRITICAL PROTECTIVE BARRIERS TO RESTRICT THE HARMFUL IMPACT OF UV EXPOSURE.



WHAT DOES THIS MEAN?

VYNGUARD® Anti-Microbial or +AM, is a unique and advanced additive specifically formulated to resist film deterioration caused by gram-negative and positive bacteria. +AM chemistry can be incorporated into any lacquer or top finish technologies for the ultimate protection against mildew, mold, bacteria and pink staining.



WHY ADD +AM IF THE VINYL SUBSTRATE ALREADY HAS A FUNGICIDE?

Like plasticizers, fungicides and anti-microbial additives tend to migrate out of the substrate over time when exposed to the elements. Having an +AM fortified lacquer or top finish provides a concentrated bacteria-fighting layer on the surface. This is where it's needed the most and can protect the vinyl from this migration issue for an extended period of time. +AM will lengthen the life of the coating and the vinyl!

ENGINEERED TO PROTECT



PINK STAINING

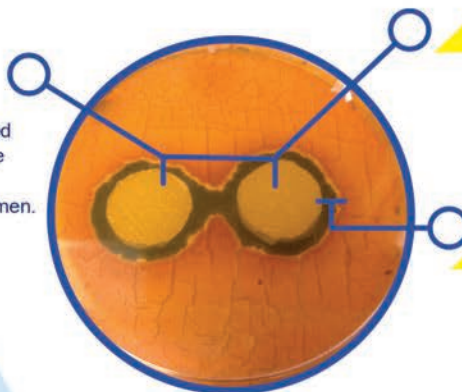
After 14 days of exposure to streptovorticillium reticulum and incubated at 29° C, no stains were present on this +AM treated vinyl test specimen.

TEST SPECIMEN

This petri dish contains two round cut samples of vinyl coated with Vynguard® Polycarbonate +AM lacquer.

ZONE OF INHIBITION

This is the area surrounding the tested substrate that represents the inhibition of bacterial growth as a result of +AM from the test specimen.



ASTM E1428-15A

Evaluating the Performance of VYNGUARD® +AM Against Streptovorticillium Reticulum



SOLUTIONS FOR INDUSTRIAL FABRICS, FILMS AND TEXTILES

Applied at the OEM, Vynguard® custom engineered finishes can be formulated for woven and non-woven membranes such as PVC, TPO, PU, PET, leather, canvas and other flexible substrates.

APPLICATIONS

MARINE FABRICS

UPHOLSTERY
BIMINIS
DODGERS
BOAT COVERS
LIFT COVERS

PRINT MEDIA

BILLBOARDS
WALL BANNERS
CAR WRAP FILM

ARCHITECTURAL MEMBRANES

ROLLED DECKING
FLEXIBLE MEMBRANE ROOFING
GEOMEMBRANES
TENT
AWNINGS

HOSPITALITY

WALLCOVERING
CONTRACT SEATING
UPHOLSTERED FURNITURE



AUTOMOTIVE

UPHOLSTERY
DOOR PANELS
TRUCK TARPS
MASS TRANSIT SEATING
CAR WRAP FILM

AIRCRAFT

LUXURY SEATING
FURNISHINGS
DECORATIVE LAMINATES

KYNAR® PVDF

This high performance fluoropolymer technology is ideal for outdoor substrates. It protects surfaces from harsh ultra violet, chemical, thermal exposure.

VYNGUARD®
WITH KYNAR® PVDF

IDEAL FOR:

MARINE FABRICS

ARCHITECTURAL MEMBRANES

PRINT MEDIA

OPTIONS:

Available in water & solvent
Can be crosslinked
Clear or pigmented systems
High, semi- and low gloss options



APPLICATION:

Rotogravure
Spray
Rotary Screen

KEY FEATURES:

- UV RESISTANCE
- WATER REPELLENCY
- STAIN RESISTANCE
- SELF CLEANING
- CHEMICAL RESISTANCE
- ABRASION RESISTANCE
- GLOSS RETENTION
- PLASTICIZER BARRIER
- BLOCKS MOLD GROWTH
- LONG LIFECYCLE
- WATER BASED
- PROP 65 COMPLIANT



WELD-ABLE PVDF

This high performance fluoropolymer technology provides excellent weatherability and allows for welding or heat sealing of the substrate.



IDEAL FOR:

ARCHITECTURAL MEMBRANES

MARINE FABRICS

PRINT MEDIA



OPTIONS:

Available in water & solvent
Clear or pigmented systems
High, semi- and low gloss options

APPLICATION:

Rotogravure
Spray
Rotary Screen

KEY FEATURES:

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ANTI-GRAFFITI

An innovative technology for exceptional stain performance, anti-graffiti formulas are 2-component clear finishes that are resistant to challenging materials such as, permanent Sharpie® marker, coffee, juice, and tannins.

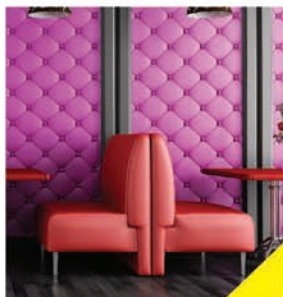


IDEAL FOR:

HOSPITALITY

AUTOMOTIVE

AIRCRAFT



KEY FEATURES:



STAIN RESISTANCE



WATER REPELLENCY



SELF CLEANING



CHEMICAL RESISTANCE



ABRASION RESISTANCE



PLASTICIZER BARRIER



LONG LIFECYCLE



OPTIONS:

Available in water & solvent
Various additives for haptics
High, semi- and low gloss options

APPLICATION:

Rotogravure
Spray
Rotary Screen



POLYCARBONATE

A uniquely engineered type of polycarbonate polymer is the backbone to this innovative formula. It has fantastic weatherability, stain protection and soft feel.



IDEAL FOR:

HOSPITALITY

ARCHITECTURAL MEMBRANES

MARINE FABRICS

PRINT MEDIA

OPTIONS:

Can be crosslinked
Various additives for haptics
Clear or pigmented systems
High, semi- and low gloss options



APPLICATION:

Rotogravure
Spray
Rotary Screen

KEY FEATURES:

-  UV RESISTANCE
-  SOFT TOUCH
-  WATER REPELLENCY
-  STAIN RESISTANCE
-  SELF CLEANING
-  CHEMICAL RESISTANCE
-  ABRASION RESISTANCE
-  GLOSS RETENTION
-  PLASTICIZER BARRIER
-  BLOCKS MOLD GROWTH
-  LONG LIFECYCLE
-  WATER BASED
-  PROP 65 COMPLIANT



POLYURETHANE

Offering many high performance urethane-based formulations, our chemistries have been qualified to withstand some of the toughest criteria including blue jean dye resistance, flexibility, and chemical performance, while ultra-low gloss and soft.



IDEAL FOR:

AUTOMOTIVE

AIRCRAFT

ARCHITECTURAL MEMBRANES

HOSPITALITY



KEY FEATURES:

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-  PLASTICIZER BARRIER
-  BLOCKS MOLD GROWTH
-  LONG LIFECYCLE
-  WATER BASED
-  PROP 65 COMPLIANT

OPTIONS:

Can be crosslinked
Various additives for haptics
Clear or pigmented systems
High, semi- and low gloss options

APPLICATION:

Rotogravure
Spray
Rotary Screen
Dip Coated



HIGH PERFORMANCE ACRYLIC

Offered in a wide variety of options for flexibility, durability, and cost. HP acrylic is the ideal choice for great weatherability and printability. It also doesn't interfere with welding.



IDEAL FOR:

ARCHITECTURAL MEMBRANES

HOSPITALITY

PRINT MEDIA



KEY FEATURES:

-  UV RESISTANCE
-  WATER BASED
-  GLOSS RETENTION
-  PLASTICIZER BARRIER
-  PRINT RECEPTIVE
-  LONG LIFECYCLE
-  BLOCKS MOLD GROWTH
-  PROP 65 COMPLIANT



OPTIONS:

Available in water & solvent
Clear or pigmented systems
Various additives for haptics
High, semi- and low gloss options

APPLICATION:

Rotogravure
Spray
Rotary Screen



VINYL ACRYLIC

This technology can be applied to a wide variety of materials as a cost-effective barrier to the elements. Characteristics such as print receptivity, weldability, and high flexibility make this product unique.

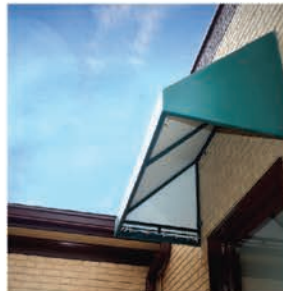


IDEAL FOR:

ARCHITECTURAL MEMBRANES

PRINT MEDIA

HOSPITALITY



KEY FEATURES:



UV RESISTANCE



WATER BASED



PLASTICIZER BARRIER



PRINT RECEPTIVE



SOFT TOUCH



PROP 65 COMPLIANT



OPTIONS:

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Clear or pigmented systems

Various additives for haptics

High, semi- and low gloss options

APPLICATION:

Rotogravure

Spray

Rotary Screen





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