



PPG FLOORING™



**If it's concrete,
protect it with PPG.**

Quartz Double Broadcast
Decorative Flakes
Waterborne Coatings
Mechanical Equipment Room
Self-Leveling Epoxy
Joint Fill and Concrete Repair





Durable resinous flooring systems for a wide variety of environments.

From general purpose epoxy flooring to specialized systems for severe environments, count on PPG for the right protection and the right technical support for your application. Use this guide and speak with your PPG rep to design a system that's right for you.

PPG FLOORING Systems are based on prime coats, base coats, top coats and decorative products that are tested for performance and durability. Use this table as a quick overview of which components and options can provide the system you need for your environment.

System	Prime Coat	Base Coat	Decorative	Top Coat
Double Broadcast Epoxy System PAGES 2-3 • Educational • Healthcare • Leisure/Hospitality • Institutional • Restaurants/Food Service	912 LV Epoxy Primer Highly Penetrating Primer	980 Clear Epoxy 100% Solids Water Clear Epoxy	2 LAYERS Decorative Quartz 50lb bag of Color Quartz	670 Polyaspartic 100% (+/-2%) Solids Polyaspartic Coating
Decorative Flake Broadcast System PAGES 4-5 • Educational • Healthcare • Leisure/Hospitality • Institutional • Pharmaceutical • Restaurants/Food Service	912 LV Epoxy Primer Highly Penetrating Primer	610 SL Self-Leveling Epoxy 100% Solids Epoxy High Gloss	Broadcast Flake 50lb box of Color Flakes	670 Polyaspartic 100% (+/-2%) Solids Polyaspartic Coating
Waterborne Coatings PAGES 6-7 • Educational • Healthcare • Leisure/Hospitality • Institutional • Pharmaceutical	2445 Breathable Primer Two-Component, Breathable, Water-based Epoxy Primer	2640 Breathable Floor Coating Breathable, Low VOC, Pigmented Epoxy Coating	-	2550 Waterborne Urethane Coating Two-Component, Waterborne Aliphatic Urethane Coating
Mechanical Equipment Room PAGES 8-9 • Commercial Buildings - Anything with Parking Decks • Plants and facilities - Manufacturing - Pharmaceutical - Food and Beverage • Institutional - Educational - Healthcare	912 LV Epoxy Primer Highly Penetrating Primer	618 Epoxy Waterproofing Membrane Elastomeric Epoxy	-	NOVAGUARD® 5031 100% Solids Epoxy High Gloss
1/16"-1/8" Self-Leveling Epoxy PAGES 10-11 • Manufacturing • Commercial • Educational • Healthcare • Institutional	912 LV Epoxy Primer Highly Penetrating Primer	610 SL Self-Leveling Epoxy 100% Solids Epoxy High Gloss	-	980 Clear Epoxy 100% Solids Epoxy High Gloss
Joint Fillers PAGE 12				Self-Leveling Joint Sealants: SL45, SL60 Self-Leveling Joint Fillers: SL75, SL85, SL90
Concrete Repair INSIDE BACK COVER				PPG QUICK MENDER™ X.O. Concrete Repair PPG NOVAGUARD® 5090 Filler

Flooring systems are available in a wide range of colors. Contact your PPG rep for more details.

All systems can be customized to achieve a variety of non-slip textures.

PPG FLOORING™

Double Broadcast Epoxy System



① Prime Coat

912 LV Epoxy Primer Highly Penetrating Primer

This two-component, highly penetrating epoxy primer/sealer provides an excellent mechanical bond.

- Low Viscosity
- Low Odor
- Seals Concrete Surfaces, Helping to Eliminate Outgassing
- Bonds to Dry and Damp Concrete, Masonry, and Metal
- Roller, Squeegee, or Brush Application
- Prevents Adhesion Issues by Controlling Moisture Vapor Emissions (MVE) of up to 20 lb When Two Coats of 912 LV Are Applied at 10 mils Each

② & ④ Base Coat

980 Clear Epoxy 100% Solids Water Clear Epoxy

Moisture insensitive multi-purpose epoxy floor coating for decorative and architectural applications.

- Clear, Low-Ameiing Epoxy
- Available In Multiple Cure Rates
- Versatile, Can Be Used in Multiple Applications
- Excellent Abrasion and Impact Resistance
- Very Good Chemical Resistance
- Low Odor
- Moisture Insensitive During Application
- Primer, Molar, or Self-Leveling Coating in Industrial and Commercial Applications

Application

- Manual: Squeegee, Roll and Broadcast
- Installation Time
- Topcoat Options
- Quartz Blend Options

Qualifications

- Color Quartz
- Slip Resistance
- UV Resistance
- Chemical Resistance
- Abrasion Resistance
- UV Stability

Typical Uses

- Bathrooms
- Breakrooms
- Entertainment/Sports Venues
- Hospitality
- Healthcare
- Restaurant Kitchens

Advantages

- Light to Medium Duty
- 100% Solids, Low Odor, Low VOC*
- UV and Chemical Resistant
- System Thickness
- Slip Resistance
- Durable & High Wear Resistance
- Aesthetic Choices – Color/Flake

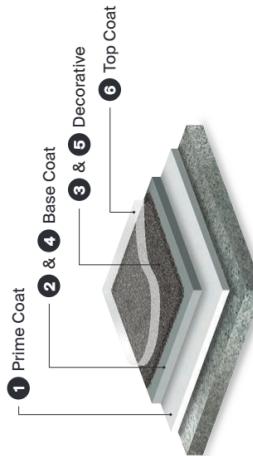


⑥ Top Coat

670 Polyaspartic

100% (+/-2%) Solids Polyaspartic Coating
Two-component, highly abrasion-resistant, aliphatic polyurea coating for industrial applications.

- High Solids
- Excellent Abrasion Resistance
- Color Stable and Excellent UV Weathering Resistance
- Can Be Applied to Concrete, Steel, Wood and Plastic Substrates
- Can Be Applied and Cures at Temperatures Down to -20°F (-29°C).
- Interior or Exterior Usage
- May Be Topcoated on Polyurea, Polyurethane or Epoxy
- Suitable for OEM with Smooth Leveling and High Gloss
- Flake and Quartz Broadcast Systems



③ Decorative

670 Polyaspartic

100% (+/-2%) Solids Polyaspartic Coating

- 3:1 Mix Ratio
- 1-gallon kit
- 4-gallon kit
- 20-gallon kit

PPG 980 Clear 100% Solids Epoxy

2:1 Mix Ratio

- 3-Gallon Kit
- 15-Gallon Kit

50lb bag of Color Quartz

Optional Top coat: PPG 670 100% Solids

Polyaspartic

• 2:3 Mix Ratio

- 2.5-Gallon Kit
- 5-Gallon Kit

*Warning: Certain colors of this product may contain chemicals known to the State of California to cause cancer and/or reproductive harm. www.PPGLockheed.com.

PPG FLOORING: Double Broadcast Epoxy System | 3



① Prime Coat

912 LV Epoxy Primer Highly Penetrating Primer

This two-component, highly penetrating epoxy primer/sealer provides an excellent mechanical bond.

- Low Viscosity
- Bonds to Dry and Damp Concrete, Masonry, and Metal
- Roller, Squeegee, or Brush Application
- Prevents Adhesion Issues by Controlling Moisture Vapor Emissions (MVE) of up to 20 lb/When Two Coats of 912 LV Are Applied at 10 mils Each

Surface Preparation

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose, or foreign materials and laitance. Laffance and unbonded cement particles must be removed by mechanical methods to achieve ICRI CSP 2-3. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clean water. For recommendations or additional information regarding substrate preparation and concrete repair, contact your local PPG Flooring Specialist.

Concrete

New concrete must be cured a minimum of 28 days.

Application Guidelines

Before mixing and applying any material, make sure environmental conditions are satisfactory for application. For optimal working conditions, substrate temperature must be between 60 to 80°F/15 to 27°C. Prior to starting, materials should be stored at 70°F/21°C for at least 24 hours. After mixing, do not allow the mixed material to sit in the pail as this will substantially reduce the working time.

② Base Coat

610 SL Self-Leveling Epoxy 100% Solids Epoxy High Gloss

This two-component epoxy coating is used primarily for protecting concrete surfaces in corrosive environments.

- Bisphenol A-Epoxy
- Excellent Color Stability
- Excellent Chemical Resistance
- Excellent Resistance to Acids, Caustics, Detergents, and Other Corrosive Materials
- High Resistance to Thermal Shock and Mechanical Impact
- Excellent Adhesion to Dry and Damp Substrates
- Low Odor
- Compliant with USDA Incident Food Contact Requirements
- Bonds to Dry and Damp Concrete, Metal, Tile, Terrazzo, and Existing Epoxy and Urethane Coatings
- Available in a Variety of Color Options

Components

PPG 912 Primer LV 100% Solids Epoxy Primer

- 3:1 Mix Ratio
- 1-gallon kit
- 4-gallon kit
- 20-gallon kit

PPG 610 Pigmented 100% Solids Epoxy

- 3:1 Mix Ratio
- 4-Gallon Kit
- 20-Gallon Kit

③ Decorative

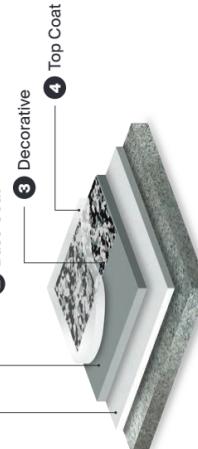
Broadcast Flake

50lb box of Color Flakes

④ Top Coat

670 Polyaspartic 100% (+/-2%) Solids Polyaspartic Coating

Two-component, highly abrasion-resistant, aliphatic polyurea coating for industrial applications.



Application

- Manual: Squeegee, Roll and Broadcast

Qualifications

- Flake Options
- Topcoat Options

Typical Uses

- Bathrooms
- Breakrooms
- Entertainment / Sports Venues
- Hospitality
- Healthcare
- Pharmaceutical

Advantages

- Light to Medium Duty
- 100% Solids, Low Odor, Low VOC*
- UV and Chemical Resistant
- High Wear Resistance
- Aesthetic Choices – Color/Flake
- May Be Touched on Polyurea, Polyurethane or Epoxy
- Suitable for OEM with Smooth Leveling and High Gloss
- Flake and Quartz Broadcast Systems



*Warning: Certain types of resins used in this product may contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. www.PPGFlooring.com/ResinSafety

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PPG FLOORING™ Waterborne Coatings



① Prime Coat

2445 Breathable Primer Two-Component, Breathable, Water-based Epoxy Primer

- Rapid Cure Times
- Short Recat Times
- Good Low Temperature Curing
- Low VOC (<50 g/L)
- Virtually Odorless
- Exceptional Bond to Concrete
- Excellent Chemical, Abrasion & Impact Resistance
- Brightens Work Areas
- Receiving Coat for Acrylic Flake Floor System
- Coating System in Areas with Moisture Vapor Transmission up to 4 lbs/1000 in²/24 hrs.
- Concrete Sealer for Warehouses
- Designed for Use as a Fast Curing Primer Under Epoxy, Acrylic, Polyurethane and Polyurea Materials
- Can Be Used as a Stand-Alone Floor Coating System

② Base Coat

2640 Breathable Floor Coating Breathable, Low VOC, Pigmented Epoxy Coating

- Heavy Duty Epoxy, but Waterborne & NO LATEX
- May Be Used Below Grade
- Virtually Odorless
- Exceptional Bond to Concrete
- Breathable
- Excellent Chemical, Abrasion & Impact Resistance
- Brightens Work Areas

③ Top Coat

2550 Waterborne Urethane Coating Two-Component, Waterborne Aliphatic Urethane Coating

- Low VOC (<25 g/L)
- Low Odor
- Breathable
- Easy Scrav or Roll on Application
- Good Abrasion and Impact Resistance
- Fully Resistant to All Common Automotive and Aviation Fluids, Salt, and Chemical Deicers
- Suitable for Floors and Vertical Surfaces
- Industrial and Commercial Warehouses
- Basements, Recreation Rooms
- Clear Finish for Decorative Color Chip Floor Systems
- Finish Coat for PPG Flooring 2640 Breathable Floor Coating
- Milamar PM400 Breathable Floor Coating

Application

- Manual: Spray or Squeegee & Roll

Qualifications

- Suitable for Floors and Vertical Surfaces
- Decorative or Utility
- Components can be used individually

Surface Preparation

Proper preparation is critical to ensure an adequate bond. The substrate must be free of all wax, grease, oils, fats, soil, loose, or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods to achieve a surface profile of ICRI CSP-1 or 100 grit sandpaper. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clear water. For recommendations or additional information regarding substrate preparation and concrete repair, contact your local PPG Flooring Specialist.

Application Guidelines

PPG 2445 WB 100% Solids Epoxy Primer

Before mixing and applying any material, make sure environmental conditions are satisfactory for application. For optimal working conditions, substrate temperature must be between 65° to 80°F (15 to 27°C). Avoid use where ambient operating temperatures exceed 140°F, or application temperatures are below 65°F or above 90°F.

Components

PPG 2445 WB 100% Solids Pigmented Epoxy

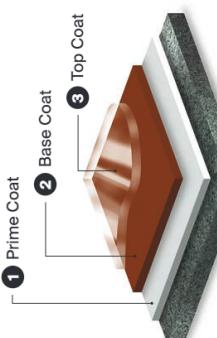
• 2:1 Mix Ratio
• 3-gallon kit
• 15-gallon kit

PPG 2550 WB 100% Solids Clear/Pigmented/ Flat Aliphatic Urethane

• 2:1 Mix Ratio
• 3-gallon kit
• 1-gallon kit
• 4-gallon kit

⚠️ Please refer to Product Data Sheet for system options and preparation details.
⚠️ Warning: Certain portions of this product may contain chemicals known to the State of California to cause cancer and/or reproductive harm. www.PPGLockheed.com/Prop65.

*Low VOCs are less than 50g/L



Typical Uses

- Airplane Hangar Floors
- Automotive / Fire Station / Garages
- Warehouses / Distribution Centers
- Schools / Retail / Hospitals
- Basement / Recreation Rooms

Advantages

- Applied to Damp or Porous Surfaces
- High Performance Waterborne Epoxy
- Low Odor & Low VOC*
- Breathable & Resistant to Moisture Vapor Emissions (MVE)
- Excellent Chemical, Abrasion & Impact Resistance
- High Wear Resistance
- Rapid Return-To-Service



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PPG FLOORING™ Mechanical Equipment Room



① Prime Coat **912 LV Epoxy Primer Highly Penetrating Primer**

This two-component, highly penetrating epoxy primer/sealer provides an excellent mechanical bond.

- Low Viscosity
- Low Odor
- Seals Concrete Surfaces, Helping to Eliminate Outgassing
- Bonds to Dry and Damp Concrete, Masonry, and Metal
- Roller, Squeegee, or Brush Application
- Prevents Adhesion Issues by Controlling Moisture Vapor Emissions (MVE) of up to 20 lb When Two Coats of 912 LV Are Applied at 10 mils Each

② Base Coat

**618 Epoxy Waterproothing Membrane
Elastomeric Epoxy**
This two-component, multipurpose elastomeric epoxy creates a waterproofing membrane to protect environments from moisture.

- Good Chemical Resistance
- Excellent Abrasion and Impact Resistance
- Good Color Retention
- High Crack Resistance
- High-Strength Joint Filler
- Can Be Applied with a Smooth, High Gloss Finish as a Membrane Coating or Can Be Mixed with Aggregates for Slip Resistance

③ Top Coat

NOVAGUARD® 5031 100% Solids Epoxy High Gloss

This two-component epoxy coating is used primarily for protecting concrete surfaces in corrosive environments.

Application

- Manual: Squeegee, Roll and Broadcast
- Multiple Topcoat Options

Qualifications

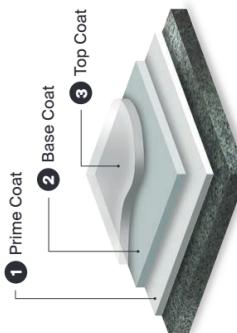
- USDA Incidental Food Contact Requirements

Typical Uses

- Mechanical Equipment Rooms
- Waterproofing Elevated Slabs
- Mezzanines
- Parking Garages

Advantages

- Waterproofing Membrane System with Moisture Resistance
- 100% Solids, Low odor, Low VOC
- Durable & Flexible
- Excellent Chemical, Abrasion & Impact Resistance
- Thermal and Mechanical Shock Resistance
- Excellent Gloss and Color Retention
- Compliant with USDA Incidental Food Contact Requirements



Surface Preparation

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose, or foreign materials and laitance. Latex and unbonded cement particles must be removed by mechanical methods to achieve ICR CSP 2-3. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clean water. For recommendations or additional information regarding substrate preparation and concrete repair, contact your local PPG Flooring Specialist.

Concrete

New concrete must be cured a minimum of 28 days.

Application Guidelines

Before mixing and applying any material, make sure environmental conditions are satisfactory for application. For optimal working conditions, substrate temperature must be between 60 to 80°F(15 to 27°C). Prior to starting, materials should be stored at 70°F(21°C) for at least 48 hours. After mixing, do not allow the mixed material to sit in the pail as this will substantially reduce the working time.

Components/Packaging

PPG 912 Primer LV 100% Solids Epoxy Primer

- 3:1 Mix Ratio
- 1-gallon kit
- 4-gallon kit
- 20-gallon kit

PPG 618 Clear or Pigmented 100% Solids Flexible Epoxy

- 1:1 Mix Ratio
- 2-gallon kit
- 5-gallon kit

NOVAGUARD 5031

- 3:1 Mix Ratio
- 4-gallon kit
- 20-gallon kit

For Increased UV and Chemical resistance, contact your local PPG Flooring Specialist for additional topcoat options.

⚠️ WARNING: Certain portions of this product may contain chemicals known to the State of California to cause cancer and/or reproductive harm. www.PPGFlooring.com/Prop65.

Please refer to Product Data Sheet for system options and preparation details.

PPG FLOORING™ 1/16"-1/8" Self-Leveling Epoxy



① Prime Coat

912 LV Epoxy Primer

Highly Penetrating Primer
This two-component, highly penetrating epoxy primer/sealer provides an excellent mechanical bond.

- Low Viscosity
- Low Odor
- Seals Concrete Surfaces, Helping to Eliminate Outgassing Bonds to Dry and Damp Concrete, Masonry, and Metal
- Roller, Squeegee, or Brush Application
- Prevents Adhesion Issues by Controlling Moisture Vapor Emissions (MVE) of up to 20 lb/24 hr When Two Coats of 912 LV Are Applied at 10 mils Each

② Base Coat

PPG FLOORING 621 SL

100% Solids Epoxy High Gloss

This two-component epoxy coating is used primarily for protecting concrete surfaces in corrosive environments.

- Bisphenol A Epoxy
- Excellent Color Stability
- Excellent Chemical Resistance
- Excellent Resistance to Acids, Caustics, Detergents, and Other Corrosive Materials
- High Resilience to Thermal Shock and Mechanical Impact
- Excellent Adhesion to Dry and Damp Substrates
- Low Odor
- Compliant with USDA Industrial Food Contact Requirements
- Bonds to Dry and Damp Concrete, Metal, Tile, Terrazzo, and Existing Epoxy and Urethane Coatings
- Available in a Variety of Color Options

PPG FLOORING Self-Leveling Epoxy is a very durable seamless self-leveling floor comprised of 100% solids pigmented epoxy. This durable floor can be used in medium duty application where a seamless resinous floor is desired. It is normally installed as a stand-alone system at nominal 1/16" - 1/8" for a smooth high gloss finish. Slip resistance can be modified by broadcasting non-slip aggregate and applying a topcoat. Consult your PPG Flooring Specialist for recommendations.

Typical Uses

- Airplane Hangar Floors
- Automotive / Fire Station / Garages
- Schools / Retail / Hospitals
- Warehouses / Distribution Centers

Advantages

- 100% Solids, Low Odor, Low VOC
- Rapid Return-To-Service
- High Wear Resistance
- Single Step



*Low VOCs are less than 50 g/L

10 | PPG FLOORING: 1/16"-1/8" Self-Leveling Epoxy



Surface Preparation

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose, or foreign materials and debris. Latex and unbonded cement particles must be removed by mechanical methods to achieve ICRI CSP 2-3. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clean water. For recommendations or additional information regarding substrate preparation and concrete repair, contact your local PPG Flooring Specialist.

Concrete

New concrete must be cured a minimum of 28 days.

Application Guidelines

Before mixing and applying any material, make sure environmental conditions are satisfactory for application. For optimal working conditions, substrate temperature must be between 60 to 80°F/15 to 27°C. Prior to starting, materials should be stored at 70°F/21°C for at least 48 hours. *After mixing, do not allow the mixed material to sit in the pail, as this will substantially reduce the working time.*

Components

PPG 912 Primer LV 100% Solids Epoxy Primer

- 3:1 Mix Ratio
- 1-gallon kit
- 4-gallon kit
- 20-gallon kit

610 SL Self-Leveling Epoxy

- 1-Gallons Part A Base
- 1-Gallon Part B Hardener
- 33lb bag of Part C Filler

Note: Do not apply at temperatures below 60°F/15°C as product will not self-level

Please refer to Product Data Sheet for system options and preparation details.
⚠ Warning: Certain types of the products may contain chemicals known to the State of California to cause cancer and/or reproductive harm. www.PPGFlooring.com



PPG JOINT FILL™ Solutions

Self-Leveling Joint Sealants

Sealants. Our rapid-set polyurea fillers are specifically formulated for concrete protection. They expand and contract with the joint during thermal cycling, allow movement, provide a barrier against water and debris, and absorb hard-wheeled traffic impact.



Self-Leveling Joint Sealants

These sealants offer a tenacious bond combined with excellent flexibility for sealing expansion and isolation joints.

SL45	Filling around machine pads creating vibration in slabs
SL60	Standard exterior joint sealant

Self-Leveling Joint Fillers

Designed primarily for control joints, these fillers prevent edges from chipping and spalling.

SL75	Heavy duty for forklift or wheeled cart traffic Ideal for Thermal Shock in Food Plants
SL85	Heavy duty for forklift or wheeled cart traffic Ideal for Concrete Polishing
SL90	Super Duty semi rigid for heavy traffic

PPG QUICK MENDER™ X.O. Concrete Repair

PPG QUICK MENDER X.O. Repair Polymer

This two-component, high performance urethane-based product is specially designed to repair or patch horizontal concrete surfaces.

- Low Odor
- Low Viscosity for Excellent Penetration and Absorption
- Dry Temperature Resistance from -40 °F (-40 °C) to 250 °F (121 °C)
- Rapid Cure and Return-to-service
- Can Be Mixed with Dry Industrial Quartz, Polishing Dust, Portland Cement, Silica Flour, Fumed Silica, or Cabosil to Form Durable Polymer Concrete



Colors Available	Concrete Gray	Light Gray
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PPG NOVAGUARD® 5090 Filler

This easy-to-use three-component epoxy repair coating can be used to fill cracks in horizontal or vertical concrete.

- 100% Solids, Low VOC (<11 g/L)
- Low Odor
- Can Be Applied Thicker for Horizontal Surfaces
- Can Be Used for Shallow Vertical Repair
- Gray Color



Please refer to Product Data Sheet for system options and preparation details.
WARNING: Certain uses of this product may expose chemicals known to the State of California to cause cancer and birth defects. www.PPGChemicalSafety.com



We are PPG

- We protect and beautify the world by developing and delivering paints, coatings and materials that our customers have trusted for more than 140 years.
- We operate and innovate in more than 70 countries.
- We are widely recognized as a leading name in protective and marine coatings.
- Continuous development ensures that we provide optimal solutions for asset owners, contractors, fabricators and applicators across the globe.



We protect and
beautify the world™

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