Diama-Poxy Patch

Item Number: DPDPP – 100-01

DESCRIPTION

DiamaPro® Diama-Poxy Patch is a 2-component, 100% solids system that works as a durable, moisture vapor resistant solution for rough and uneven surfaces. Trowel it over ceramic tiles or pitted and spalled concrete to smooth and prepare surfaces for a decorative finish or use it to bond prefabricated cove to walls and floors.

ADVANTAGES

- Meets USDA, FDA, EPA, and SCAQMD Standards
- Eligible for LEED Points: Made in California from Partially Recycled Materials
- Adhesion to Concrete, Wood, Metal, Non-glazed Tiles
- Anti-bacterial
- Easy Installation
- High Traffic and Impact Resistance
- Low Maintenance
- Low Odor
- Waterproofing

SUGGESTED USES AND APPLICATION AREAS

- Crack and Joint Repair
- Wall Cove, 1"x1"
- Adhesive for Prefabricated Cove Strips
- Grout Coat
- Patching
- Under Decorative Systems
- Industrial, Healthcare, Commercial, Government, Institutional, and Residential.

FINISH AND COLOR

- Matte
- Unpigmented

COMPONENTS

- DiamaPro® Diama-Poxy Patch
  - Part A: Resin – 1 gal. unit
  - Part B: Hardener – 1 gal. unit

SAFETY AND TESTING

- Safety
  - Personal protective equipment (PPE) and safety conditions must be considered before using any product.
  - Review all relevant and current documentation including Safety Data Sheets.
- Testing: Before installation:
  - Evaluate the site for any unknown conditions and/or defects.
  - To ensure desired results are achieved, the system should be tested in a small area on site before full installation begins.

STORAGE AND APPLICATION TEMPERATURES

Ideal Storage Environment	Dry, Out of Direct Sunlight, 60-80°F
Material Temperature During Application	50-70°F and 5°F Above Dew Point
Minimum Substrate Temperature During Application	5°F Above Dew Point

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LIMITATIONS

- UV Resistance
  - Material will amber over time.
- DO NOT apply single coat greater than 4"
- Complete samples and onsite mockups to ensure desired results are achieved.
- Application temperatures
  - When temperatures increase, material cures faster.
  - When temperatures decrease, material cures slower.
  - If application temperatures are outside of those recommended, contact your DiamaPro Systems® Technical Representative.
  - Apply material when temperature is decreasing.
- Application times are based on test results compiled by lab technicians in a controlled setting.
- Coverage rates are for estimating purposes only. Factors such as waste, unusual/abnormal substrate conditions, and other unforeseen job site conditions may affect actual product yields and are the responsibility of the installer.
- DO NOT apply under direct sunlight.
- DO NOT install under inclement weather conditions.

APPLICATION TEMPERATURE AND TIME

Ambient Temperature	60-95° F, <90% RH	50°F, 50 % RH	70°F, 50 % RH	100°F, 50 % RH
Working Time	25-30 min.	35 min.	25 min.	15 min.
Recoat Window	8.5-24 hrs.	12-36 hrs.	6-24 hrs.	2-24 hrs.
Return to Service (Foot Traffic)	24 hrs.	36 hrs.	24 hrs.	24 hrs.
Full Cure (Vehicle Traffic)	7 days	7 days	7 days	7 days

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PROPERTIES WHEN FULLY CURED

PROPERTIES	TEST METHOD	TYPICAL VALUES
Abrasion Resistance	ASTM D4060	40 mg loss
Adhesion Strength	ASTM D4541	400 psi, concrete failure
Adhesion Strength	ASTM D4541	400 psi, vinyl failure
Adhesion Strength	ASTM D4541	500 psi, natural quartz failure
Adhesion Strength	ASTM D4541	450 psi, color quartz failure
Compressive Strength	ASTM D695	13,700 psi
Flame Spread/Critical Flux	ASTM E648	Class 1
Flame Spread/Rate of Burning	ASTM D635	Self-extinguishing
Flexural Strength	ASTM D790	9,000 psi
Hardness (Shore D)	ASTM D2240	85
Impact Resistance	ASTM D2794	120 in-lbs.
Indoor Air Quality	CA 01350	Compliant
Microbial Resistance	ASTM G21	Passes, 0 growth
Modulus of Elasticity	ASTM D790	5.0 x 10^5 psi
Moisture Vapor Permeance	ASTM E96	0.08 perms
Tensile Elongation at Break	ASTM D638	5%
Tensile Strength	ASTM D638	7,800 psi
Thermal Coefficient of Linear Expansion	ASTM D696	18.0 x 10^ (-)6 in/in/°F
Water Absorption	ASTM D570	<0.05%
Moisture Vapor Emission Rate	ASTM F1869	<25 lbs.
UV Resistance	ASTM 1869	Level 1
Relative Humidity (thickness >16 mil.	ASTM F2170	<99%

CHEMICAL AND STAIN RESISTANCE

1 = Best for chemical resistance: No adverse effects; Remove within 24 hours.
2 = Low potential for stain: No adverse effects: Removed within 24 hours.
3 = High potential for stain or degradation: Must be removed within 24 hours of exposure.
NR = Not recommended

Acetic Acid (Component of Vinegar), 10%	1	Hydrochloric Acid, 10%	3
Acetic Acid, 30%	2	Hydrochloric Acid, 30%	3
Acetone	NR	Hydrofluoric Acid, 10%	1
Ammonia, 30%	1	Hydrofluoric Acid, 30%	3
Ammonium Hydroxide, 30%	1	Hydrogen Peroxide, 10%	NR
Antifreeze (Coolant)	1	Hydrogen Peroxide, 50%	NR
Benzene (Component of Crude Oil)	3	Iodine, 2%	3
Benzyl Alcohol	3	Isopropyl Alcohol	3
Betadine, 11%	1	Jet Fuel	1
Brake Fluid, DOT 3	NR	Lactic Acid, 30% (Dairy Facility)	NR
Boric Acid, 4%	1	Lime Juice	2
Chromic Acid, 10%	3	Magnesium Hydroxide	1
Chromic Acid, 30%	3	MEK (Methyl Ethyl Ketone)	NR
Citric Acid, 30%	1	Methanol	NR
Ethanol, 95%	NR	Methylene Chloride	NR
Ethyl Acetate, 99% (Food/Beverage Facility)	NR	MIK (Methyl Isobutyl Ketone)	NR
Formaldehyde, 37% NR	3	Mineral Oil	1
Premium Gasoline	1	Mineral Spirits	NR
Hydraulic Fluids (Machinery, Automobile, Aviation)	2	Motor Oil, SAE 30	1
Mustard, Yellow	2	Phosphoric Acid, 20%	3

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Nitric Acid, 30%	NR	Potassium Hydroxide, 30% (Alkaline Batteries, Soap)	1
Oleic Acid	1	Propylene Glycol	1
Oxalic Acid, 10%	1	Silver Nitrate, 20% (Photo Labs)	3
Sodium Chloride, 20%	1	Sodium Hypochlorite (Bleach), 10%	2
Sodium Hydroxide (Caustic Soda), 50%	1	Sodium Hypochlorite (Bleach), 30%	3
Sodium Persulfate (Bleaching and Oxidizing Agent)	3	Tannic Acid, 20%	3
Sulfuric Acid, 37% (Battery Acid)	NR	Tartaric Acid, 10%	1
Transmission Fluid	1	Urine (Dog and Cat)	1
Urea (Nitrogen-Rich Fertilizer)	1	Vinegar, Distilled	1
Water (Hard Water from Well)	1	Wine, Cabernet Sauvignon	2
Whisky	1	Xylene	3

GENERAL SURFACE PREPARATION REQUIREMENTS

- The substrate must be sound. All loose debris must be removed.
- Must be clean, dry, and free of any bond inhibiting contaminates.
- When applying directly over concrete, the substrate must be mechanically profiled.
- Adhere to International Concrete Repair Institute current standards.

Coverage Rates

UNIT SIZE	MIXED QUANTITY
2 gal. Mixed	462 cu. In.

MIXING

Standard Kit Mix Ratio	Part A: 1 gal. Part B: 1 gal: 1 gal.
Diama-Poxy Accelerator	8 oz. per 2 gal. kit
Mixing Tools	Use trowel and mixing board to combine.
Mixing Directions	Place a portion of Part A onto mixing board. With a trowel, fold part B into part A until color is consistent throughout mixture. DO NOT mix for more than 3 minutes.
Mixing Directions with Accelerant	Once the material is combined, pour accelerant onto material. Use 8 oz. of accelerant per 2 mixed gal. Mix with trowel or putty knife.

CLEAN UP

- Allow the unused material to cure in the mixing vessels.
  - Discard the vessels according to the Federal, State and Local regulations.
- Uncured material can be cleaned up using DiamaPro® Diama-Coat Solvent VOC.
  - Properly discard any rags that might have been used.
- Cured material needs to be mechanically removed from mixing paddles.

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MAINTENANCE AND CLEANING

- Daily
  - Sweep, removing all abrasives.
  - Remove stain producing liquids as soon as they happen.
- Auto-scrubber
  - Fit with a soft, non-abrasive white pad.
  - Use DiamaPro® Diama-Clean 30 in the freshwater tank according to the materials dilution rate.
- Mop and Bucket
  - Use DiamaPro® Diama-Clean 30 diluted in the freshwater

Availability: DiamaPro® Diama-Poxy is only available through DiamaPro Systems® Authorized Distributors. For a list of Authorized Distributors please contact DiamaPro Systems®.

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