



## TECHNICAL DATA



877-450-3701



S1EONLINE.COM



SERVICE@S1EONLINE.COM

50  
YEAR

REPAIR LIFE  
GUARANTEED



PipePatch® is the premier no-dig point repair solution for sewer professionals seeking a fast, efficient, and permanent method to address pipe damage.

Designed for minimal disruption, PipePatch® **trenchless spot repairs restore structural integrity to damaged pipes without excavation**, saving time, money, and preserving surrounding infrastructure. With its proven technology, PipePatch® enhances productivity on the job and extends the life of sewer systems.

LESS DISRUPTION.

MORE PRODUCTION.

Avoid costly excavation and road closures. PipePatch® allows for targeted repairs that **minimize disruption to the surrounding environment**, enabling crews to complete jobs faster and more efficiently.

COST-EFFECTIVE

SOLUTION

Reducing the need for digging significantly cuts down on labor, equipment, and restoration costs, **making PipePatch® a more economical option** compared to traditional pipe repair methods.

ENVIRONMENTALLY

FRIENDLY

PipePatch® **contains no VOCs, harmful gases, or odors**. It eliminates the need for digging, reducing soil displacement, pollution, and material waste.

DURABLE

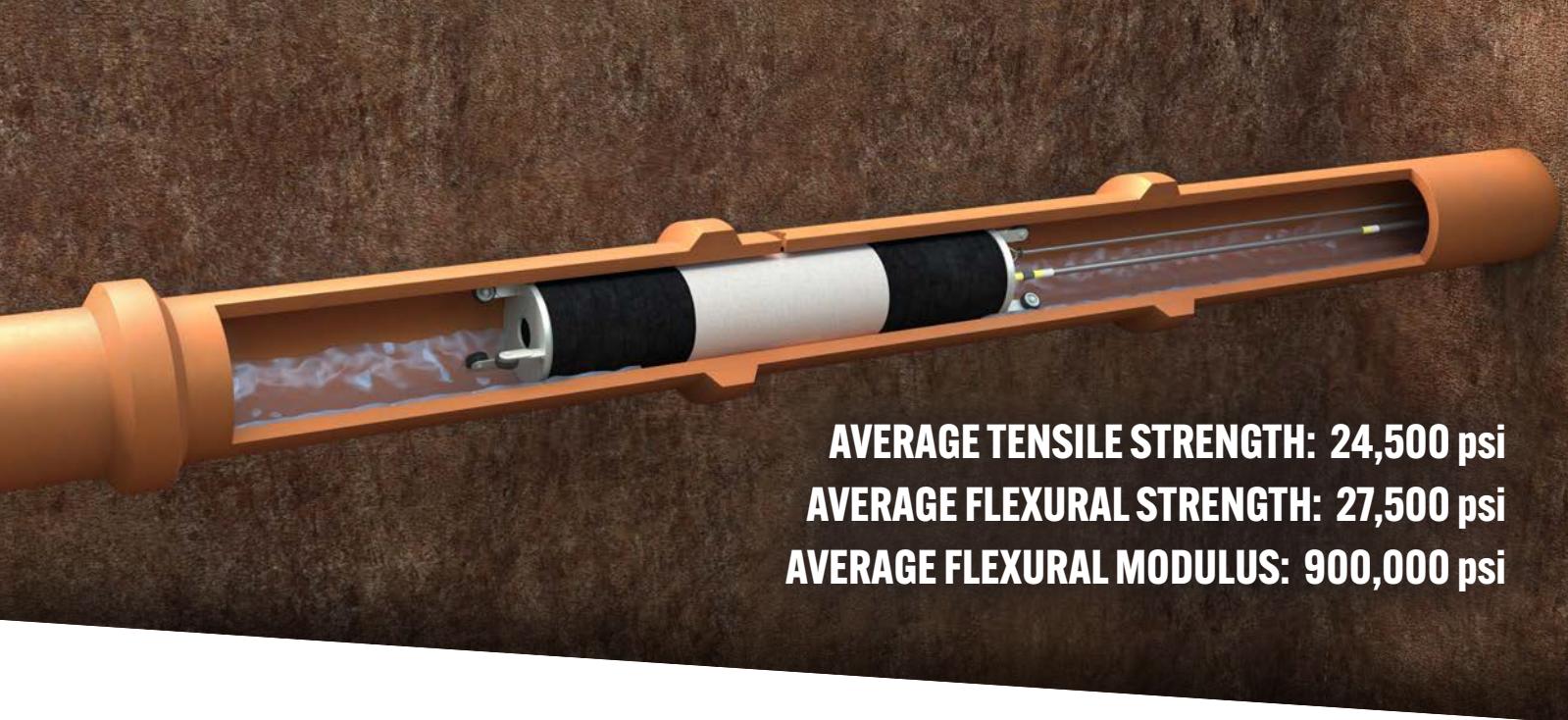
LONG-LASTING REPAIRS

PipePatch® is a permanent repair that is **stronger than the original pipe** and is not affected by household oils or chemicals.



Premier Point Repair Technology

Say goodbye to costly and time consuming excavations and get right to the point of trenchless pipe repair with the **PipePatch® NO DIG Pipe Repair System**. Call us today to learn more!



## APPLICATION ADVANTAGES

- Available to repair 1½" - 72" diameter pipe in 24" and 48" lengths
- Flow-thru packers prevent backups during repairs
- No more costly, disruptive and time consuming excavations
- No more road closures or traffic back ups during repairs
- Only standard sewer cleaning and inspection equipment required
- Small repair crews - as few as 1 to 3 people
- Short repair times - several can be done in one day
- Field tested for over 10 years with a durable 50 year repair life

## TECHNICAL DATA

- Odorless and ideal for working in confined spaces
- Outstanding bonding properties to most materials
- Resistance to 63+ chemicals and oils
- Non-flammable, making it ideal for hotels, airports, hospitals, etc.
- Non-hazardous, so no transport or disposal problems
- Resin cures in the presence of water
- Structural properties exceed the minimum requirements of ASTM F3541 & ASTM F1216

## ENVIRONMENTALLY SAFE

- PipePatch® contains no VOCs or Styrene
- Safe for storm and sanitary sewers
- PipePatch® resin does not get hot
- Maximum temperature may reach 105°F
- Safe to touch and safe on packers



## POINT REPAIR SYSTEM



### INTRODUCTION

The Point Repair System is used to repair short lengths of damaged drain, waste, and vent pipelines without the need for digging. PipePatch® point repair system uses a woven fiberglass mat which is thoroughly soaked with an ambient cured two-part resin.

### TECHNICAL DATA

- Point Repair Woven Fiberglass Mat
- Two (2) Silicate resin systems are available
  - Part A – Catalyst/Activator
  - Part B – Summer or Winter Resin

The resin is selected for each installation based upon the desired curing time and ambient temperature. All the resin, when used with our woven fiberglass material and properly cured, will meet, or exceed the minimum physical properties listed below.

### HANDLING & CURE TIMES

**Please Note:** Working time and cure time are affected by temperature. Warmer temperatures will result in a shorter working and curing time. Colder temperatures will extend the working and curing time. Always read, understand, and adhere to hazard warnings in our products safety data sheets prior to use.

SUMMER RESIN		
Ambient Temp.	Working Minutes	Cure Minutes
64°F (18°C)	32 - 35	180 - 240
73°F (23°C)	30 - 32	180 - 210
82°F (28°C)	20 - 23	180 - 210
91°F (33°C)	14 - 16	150 - 210

WINTER RESIN		
Ambient Temp.	Working Minutes	Cure Minutes
33°F (0.6 °C)	20 - 22	100 - 120
55°F (13°C)	18 - 20	90 - 110
67°F (19°C)	16 - 19	75 - 100
73°F (23°C)	15 - 17	60 - 70

RAPID RESIN		
Ambient Temp.	Working Minutes	Cure Minutes
40°F (4°C)	9 - 10	55 - 60
50°F (10°C)	8 - 9	45 - 50
59°F (15°C)	7 - 8	35 - 40
68°F (20°C)	6 - 7	25 - 30

# PIPEPATCH® CERTIFICATION



The adhesive force of the fiberglass reinforces PipePatch®, and the cohesive force of the patches cured silicate resin is sufficient to maintain a structural watertight seal compliant to ASTM F-1216. The structural characteristics of PipePatch® are routinely verified with independent testing conducted by NSF International. The product is certified to NSF/ANSI 14, ASTM F3541. Additionally, IAPMO R&T Inc. certify that PipePatch® is in compliance with the Uniform Plumbing Code and is approved to display the UPC® certification mark.

## PIPEPATCH® PHYSICAL PROPERTIES

	Test Method	Minimum Value Required For ASTM F 1216	PipePatch® Test Results
Flexural Modulus (psi.)	ASTM D 790	250,000 psi.	900,000 psi.
Flexural Modulus (psi.)	ASTM D 790	4,500 psi.	27,500 psi.

**Average PipePatch® Wall Thickness:** 0.118 inches (3.0mm)

## RESISTANCE OF PIPEPATCH® AT ROOM TEMPERATURE

Acids	100% Hydrochloric Acid, 50% Sulfuric Acid, 50% Nitric Acid, 100% Organic Acids
Caustic Solutions	At 100% All Caustic Solutions
Solvents	Acetone, MEK, Dimethyl Formamide, Dimethyl Acetamide, N-methyl Pyrrolidone, Tetramethyl Carbamide, Gasoline, Benzene, Aniline, 100% Chlorinated Solvents, Amines
Oils	100% Oils and Fats

## RESISTANCE OF PIPEPATCH® TO HOT LIQUIDS

176°F Hot Liquids	Long-term Resistance
390°F Hydrous Solution	Long-term Resistance
212°F Fats and Oils	Short-term Resistance

**Fire Characteristics:** Self Extinguishing

The PipePatch® system is a straightforward, economical alternative to excavation. PipePatch® is a preferable CIPP system and can be used in 1.5 inch through 72 inch diameter plastic, steel, copper, concrete, cast iron, and clay pipe.

# ADDITIONAL CERTIFICATIONS



COMPLIES WITH THE FOLLOWING CODES
2021, 2018, 2015, 2012, and 2009 <i>International Plumbing Code®(IPC)</i>
2021, 2018, 2015, 2012, and 2009 <i>International Residential Code®(IRC)</i>
2021, 2018, 2015, 2012, and 2009 <i>Uniform Plumbing Code®(UPC)*</i>
2020, 2015, and 2010 <i>National Plumbing Code of Canada®(NPC)**</i>

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COMPLIES WITH THE FOLLOWING STANDARDS
ASTM F3541, Standard Practice for Sectional Repair of Existing Gravity Flow, Non-Pressure Pipelines and Conduits by Pushed or Pulled-In-Place Installation of Cured-In-Place Thermosetting Resin Pipe (CIPP)
ASTM F1216, Standard Practice for Rehabilitation of Existing Pipeline and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
NSF/ANSI 14, Plastic Piping System Components and Related Materials
NSF SE 10990-2011, Special Engineered Specification for Rehabilitation by Point Repair of Existing Pipe
IAPMO IGC 321, Cured-in-Place Point Rehabilitation Systems for Pipe Reconstruction



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