

## PRODUCT DESCRIPTION

FlashPatch 1221 Fast Curing Epoxy Repair Putty is a 100% solids, two-component polymer hybrid that will provide a resilient filler for spalls, cracks, and holes in concrete and steel. FlashPatch 1221 is a semi-rigid patching material that provides exceptional adhesion characteristics. It can be applied in deep holes on horizontal or vertical surfaces and up to ½" on overhead surfaces. FlashPatch 1221 can be machined in as little as 1 hour, depending on temperature and humidity.

## APPLICATION DATA SUMMARY

See Application Instructions for complete information on surface preparation, equipment, environmental conditions, application procedures, and safety precautions. For conditions outside the specifications or limitations described, contact Wolverine Coatings Corporation for details.

## SURFACE PREPARATION

Coating performance is directly related to the quality and degree of surface preparation. Prior to overcoating, all surfaces must be clean, dry, undamaged, and free of all contaminants. For more specific information, consult the surface preparation section contained in the Application instructions.

## SAFETY PRECAUTIONS

Read the Safety Data sheet carefully before use. Safety precautions in the SDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion. For further information, please refer to our "Epoxy Resin Safety Handling Guide."

## SHIPPING DATA

Packaging:	2 Gal Kits
Shelf Life (indoors @ 40-100°F):	12 Months

## APPLICATION DATA

Substrate:	Steel or Concrete
Surface Preparation	
Steel	SSPC-SP5 Abrasive Blast
Concrete	ASTM D4258
Application Method:	Apply with a marginal trowel, or putty knife. Use putty knife or similar tool to remove excess.
Gel Time:	5-7 minutes (125g at 77°F)
Induction Period:	None

## APPLICATION DATA (CONTINUED)

Mixing: FlashPatch 1221 Putty is packaged in pre-measured containers consisting of Resin (Part A) and Hardener (Part B) which must be mixed together before use. Improper or inadequate mixing can cause isolated soft spots and subsequent failure. Measure out equal amounts of Parts A & B. Because of the very short potlife, it is recommended that only the amount that can be applied in about 5 minutes be mixed. Mix thoroughly with a putty knife or other tool until smooth and streak free. Caution: Improperly mixed material will not cure correctly.

Immediately apply the material with a putty knife to the surface as smoothly as possible to minimize further machining steps.

Mix Ratio: 1 Part "A" to 1 Part "B" (By Volume)

Environmental conditions			
Temperature Range:		50-120°F	
Max Relative Humidity:		N/A	
Surface Temperature:		50-120°F	
Curing Time			
	90°F	70°F	50°F
Tack Free	NT	1 hr	NT
Overcoat	NT	1 hr	NT
Through	NT	1 hr	NT
Max Chemical resistance		7 Days	
Thinner		None	
Equipment Cleaner		MEK	

## PHYSICAL DATA

Color:	GY4C Concrete Gray
Components:	Two
Curing Mechanism:	Chemical reaction
Volume Solids:	100%
Total Coats:	1 or more
VOC:	None
Viscosity (mixed):	Putty Grade
Elongation:	15% at 70°F
Flashpoint (SETA):	>200°F

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#### **SAFETY**

For your safety, all required personal protection equipment should be used when operating machinery or handling chemicals. Concrete dust is a source of silica particles and other hazardous materials that can cause silicosis and other illnesses. Proper safety equipment and methods are the responsibility of the installation company, general contractor, and/or facility owner.

#### **WARRANTY**

Wolverine Coatings Corporation warrants its products to be free from defects in material and workmanship. Wolverine Coatings Corporation's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Wolverine Coatings option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by the Buyer to Wolverine Coatings in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the ship date, whichever is earlier. Buyer's failure to notify Wolverine Coatings of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Wolverine Coatings makes no other warranties about the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by Wolverine Coatings, whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.

#### **LIMITATION OF LIABILITY**

Wolverine Coatings Corporation's liability on any claims based upon Wolverine Coatings Corporation's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall Wolverine Coatings Corporation be liable for consequential or incidental damages.

#### **LITERATURE REVISION - TDS: FlashPatch 1221 - Rev. 191203**

Published literature is subject to change without notice. Wolverine Coatings Corporation is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at [www.wolverinecoatings.com](http://www.wolverinecoatings.com).



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