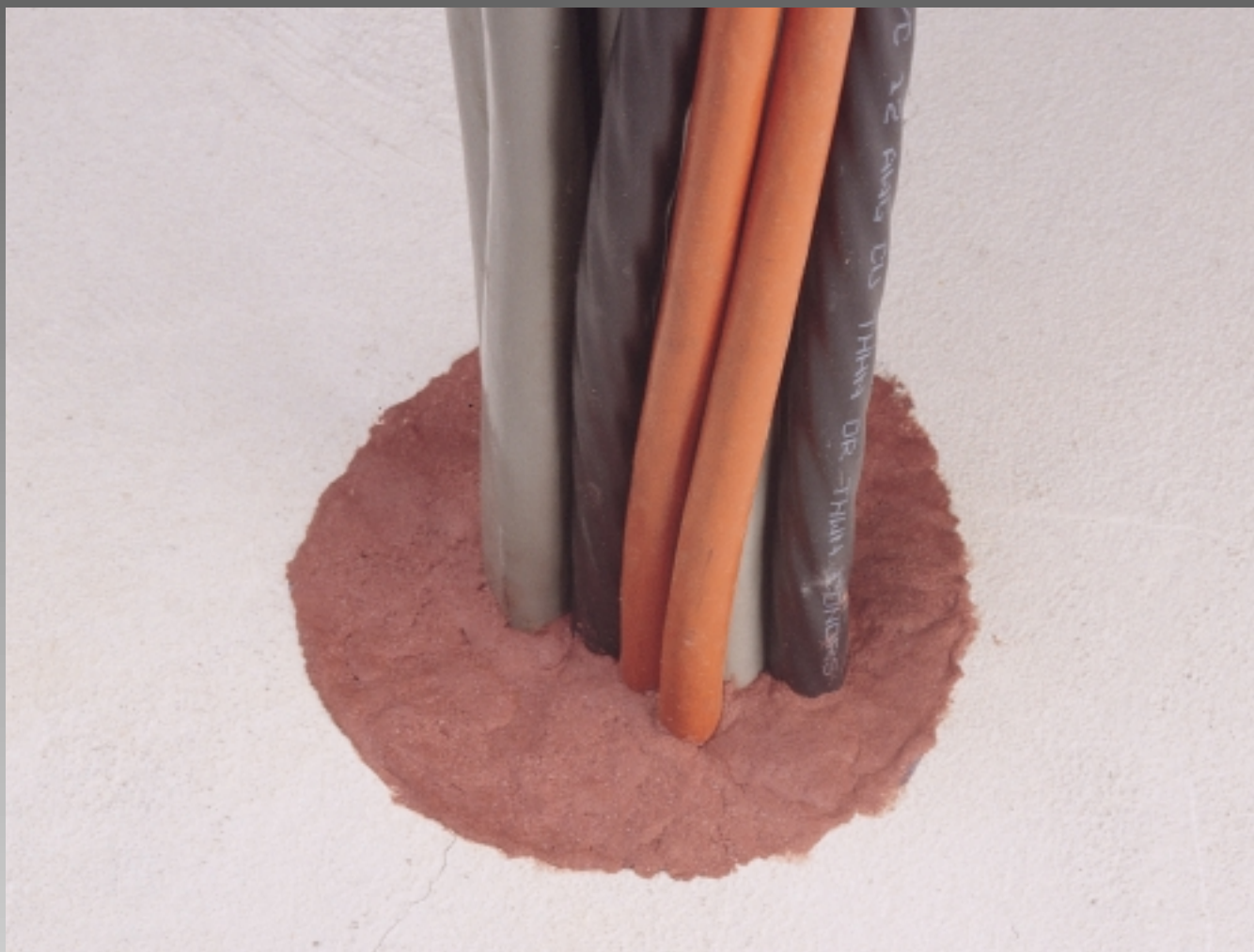


3M™ Fire Protection Products Fire Barrier Moldable Putty+



An easy-to-use intumescent fire-resistive putty that's also halogen-free.

3M *Innovation*

3M™ Moldable Putty+. What you've come to expect from 3M putty products and more.

3M fire barrier moldable putty+ is designed for use as a one-part, intumescent fire resistive to restore the integrity of fire-rated building construction. Moldable putty+ is also ideally suited for telecommunications facility installations.

Easy to use

3M moldable putty+ consists of a synthetic elastomer that provides up to a four-hour fire rating.* It remains pliable and flexible up through installation. It won't dry out or crumble. And with availability in both pads and stix, is ideally suited for numerous applications including:

- Cable (including fiber inner duct and cable)
- Insulated pipe
- Electrical Conduit
- Metal Pipe
- Penetration against air draft, smoke, noxious gas and flame propagation

One-part, solventless pads and stix are easy to mold and require no special tools.

Halogen-free formula

3M moldable putty+ remains free from corrosive gases during a fire, reducing risks for building occupants and sensitive electrical equipment. The unique 3M formula also leads to minimal odor which is easier on you during installation. It also contains no asbestos.

3M extras

3M moldable putty+ adheres to all common building surfaces including metal electrical boxes. It's also easily re-enterable. It provides a draft and cold smoke seal immediately after installation, even before any temperature increases. And once heated, 3M moldable putty+ is intumescent and expands to form a hard char which prevents the transmission of hot gases and fire.

3M fire barrier moldable putty+ is designed to meet the intent of NEC 300-21 (NFPA 70), SBCCI, BOCA and ICBO Building codes.

These are just some of the extras you've come to expect from 3M Fire Protection Products.

Physical Properties:				
	Units		Value	
Color			Red-Brown	
Density	lbs/gal (Kg/l)	8 - 11 (.95 - 1.35)		
Weight				
4 in. x 8 in. Pad	oz (g)	2.7 oz (76 g)		
7 in. x 7 in. Pad	oz (g)	4.1 oz (115 g)		
9 1/2 in. x 9 1/2 in. Pad	oz (g)	7.6 oz (215 g)		
1.6 in. x 11 in. Stix	oz (g)	20 oz (567 g)		
Performance Properties: (Typical Values)				
	Units		Value	
Adhesion	All Substrates	Good		
Fire Resistance	Hours	1-4 (System dependent)		
Heat Expansion				
Begins	225°F (107°C)			
Significant	350°F (177°C)			
Free Expansion	Nominal 3 times			
Test Condition	Temperature	Humidity	Time	Normal Expansion
Oven	176°F (80°C)	—	90 days	2.7 times
Humidity Chamber	90°F (32.2°C)	90 percent	90 days	2.6 times
Product Dimension:				
Product	Dimensions		Volume	
MP Stix	1.6 in. x 11 in.		21.2 in. ³	
MPS-2+	(41mm x 279mm)			
MP Pads	1/8 in. x 4 in. x 8 in.		4 in. ³	
MPP-1	(3,1mm x 102mm x 204mm)			
MPP-4S+	1/8 in. x 7 in. x 7 in.		6.12 in. ³	
	(3,1mm x 178mm x 178mm)			
	1/8 in. x 9 1/2 in. x 9 1/2 in.		11.3 in. ³	
	(3,1mm x 241,3mm x 241,3mm)			

* When tested in accordance with the time/temperature curves and water hose stream tests of UL 1479 and ASTM E814.

Warranty and Limited Remedy. This product will be free from defects in material and manufacture for a period of ninety (90) days from date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If this 3M product is proved to be defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

Limitation of Liability. Except where prohibited by law, 3M will not be liable for any loss or damages arising from the use of this 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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