

3M™ Fire Protection Products
3M™ Fire Barrier Water Tight Sealants



Fire & Water Protection

A Powerful Combination

3M™ Fire Barrier Water Tight Sealants are the first firestopping systems to meet both UL 1479 (ASTM E 814) Firestop tests and UL W-Rating for water tightness when used on floor penetrations. Now you have an all-in-one product solution for water infiltration and fire containment.

3M

Choose the Right Product for Your Need

3M™ Fire Barrier Water Tight Sealants

Achieve the benefits of firestopping and a water tight seal in one application!

- Meets UL Water Leakage Test, W-Rating—Class One requirements for systems tested and listed in accordance with ANSI/UL 1479.
- Provides remarkable adhesion on most construction surfaces, including: concrete, gypsum, metal, plastic, wood and insulation.
- Ideal for the following interior construction voids: blank openings, metallic pipes, non-metallic pipes, cables, cable trays, insulated pipes, busways, HVAC vents and ducts, combos and construction joints.
- Low VOC. Meets the intent of LEED® VOC environmental quality requirements—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants. <250 g/L VOC contents (less H₂O and exempt solvents).
- Helps minimize noise transfer (STC Rated).
- CPVC compatible.



3M™ Fire Barrier Water Tight Sealant 3000 WT

High-performance intumescent silicone achieves the benefits of a firestop and water tight seal. The most versatile of the 3M firestop sealants with the most systems of any 3M firestop product.

- Provides up to 4-hour F-Rating.
- Can close up to 3" PVC pipes (open or closed piping systems).
- Remarkable weatherability—ideal for fast-track construction.
- Cures upon exposure to atmospheric humidity.
- Best for non-metal horizontal or vertical penetrations and bottom of wall construction joints.
- Meets ASTM G 21 standard practice for determining resistance of synthetic polymeric materials to fungi.
- Minimizes noise transfer (STC-Rating of 53 when tested in STC 54-rated wall assembly)

3M™ Fire Barrier Water Tight Sealant 1000 NS

Non-slumping silicone with up to 3-hour fire protection.

- Best for wall or vertical applications.
- Remarkable weatherability.
- Cures upon exposure to atmospheric humidity.
- Minimizes noise transfer (STC-Rating of 56 when tested in STC 56-rated wall assembly).
- For dynamic and static construction joints (compression/extension capability of ±31%).



3M™ Fire Barrier Water Tight Sealant 1003 SL

Self-leveling silicone with up to 3-hour fire protection.

- Best for floor penetrations and horizontal applications.
- Remarkable weatherability.
- Cures upon exposure to atmospheric humidity.
- Chemically compatible with CPVC piping systems.
- Minimizes noise transfer (STC-Rating of 56 when tested in STC 56-rated wall assembly).
- For dynamic and static construction joints (compression/extension capability of ±31%).



Hurricane Hero: 3M™ Fire Barrier Water Tight Sealants Help Stop Water

Description

An addition was being built above a five-story wing of Lee Memorial Health System's HealthPark Medical Center in Fort Meyers, Florida. Crews were constructing three new stories as part of an expansion project that would add 122 beds and 239,000 more square feet to the hospital.

Problem

Water leakage during the construction of HealthPark Medical Center was causing major concerns for hospital staff and patients occupying the floors below. Hospitals, in particular, must be protected from water damage to remain a sterile environment.

Weather forecasts showed that water concerns were only going to worsen for the construction crews at HealthPark Medical Center. Florida was in the middle of the worst hurricane season in the state's history. As construction moved forward, and the water leakage continued, Hurricane Charley, which later became known as one of the largest hurricanes to ever hit Florida, was only five days away.

Protecting a building from water intrusion is critical during the construction process. Water permeation happens when open windows and unsealed roofs allow rain water and moisture to easily penetrate the building. If rain water seeps down through heating and plumbing penetrations, it collects inside walls and floors, causing a costly mess.

Solution

Rice Firestop Systems Inc. was hired to find a way to seal floor penetrations and voids to prevent further damage. To do so, Chris Benetatos, manager of Rice Firestop Systems Inc., asked 3M for help in finding a solution.

Water leakage during building construction is not a new problem, as 3M had recognized after hearing customers continually voice concerns. To address

“Everyone was Pleased with how the 3M Sealants & Cured, Set Up & Performed.”

the issue, 3M approached Underwriters Laboratories (UL) and formed an industry roundtable to determine the best method to stop water leakage in floor penetrations. The result was Underwriters Laboratories developing the W-Rating—Class One requirements for water tightness in firestop sealants when used on floor penetrations.

The new W-Rating had just recently been approved when Benetatos asked 3M for help. When he learned that the 3M™ Fire Barrier Water Tight Silicone Sealants were the first firestop systems to pass the new rating, he acted on the information quickly to get the job done to beat Charley.

“Our crews worked 24-hour days over a five-day period, installing new firestop sealants on all eight floors of the hospital before Charley hit,” said Benetatos. “We had been using 3M products for six months prior, but only met codes for fire prevention, not for water infiltration.”

Benetatos implemented UL system guidelines CAJ 1292 to install firestop systems, increasing the depth to one-half inch as directed by 3M. They finished the

job just two hours before Charley hit—enough time for the product to set and cure.

Results

When the storm swept through, more than seven inches of rain fell within three days, causing an estimated \$14 billion in damage throughout Florida. For HealthPark Medical Center, however, the damage was minimal.

“We were impressed with the product's ability to dry quickly,” said Benetatos. “It saved us time and money, and in the long run, it saved our customer money. There was some wind damage to the roof and the construction equipment. Water got into the building but was held back by the sealants,” he continued, “Everyone was pleased with how the 3M sealants cured, set up and performed. There wasn't one leak, even after Charley.”

The 3M Difference

3M provided the quality and reliability necessary in a critical situation such as the one HealthPark Medical Center was facing. The 3M™ Fire Barrier Water Tight Sealants were the first firestop systems to pass the new W-Rating. It was this progressive product development that made 3M™ Fire Barrier Water Tight Sealant the first choice of the HealthPark Medical Center team.

The results were a testimony to the quality of the 3M™ Fire Barrier Water Tight Sealants. The fast-acting properties allowed the product to cure in time to save the HealthPark Medical Center from what could have been extensive water damage.

3M™ Fire Barrier Water Tight Sealants Provided the Quality and Reliability Necessary in a Critical Situation



3M™ Fire Barrier Water Tight Sealants

Product #	Description	Size	Unit	UPC	Units/Case
3000 WT	Intumescent Firestop Silicone Sealant	10.1 fl. oz.	Cartridge	051115-16593-1	12
	Intumescent Firestop Silicone Sealant	20 fl. oz.	Sausage	051115-18788-9	12
	Intumescent Firestop Silicone Sealant	4.5 gal.	Pail	051115-16594-3	1
1000 NS	Non-slumping Silicone Sealant	10.1 fl. oz.	Cartridge	051115-11535-6	12
	Non-slumping Silicone Sealant	20 fl. oz.	Sausage	051115-18790-2	12
	Non-slumping Silicone Sealant	4.5 gal.	Pail	051115-11537-5	1
1003 SL	Self Leveling Silicone Sealant	10.1 fl. oz.	Cartridge	051115-11538-7	12
	Self Leveling Silicone Sealant	20 fl. oz.	Sausage	051115-18789-6	12
	Self Leveling Silicone Sealant	4.5 gal.	Pail	051115-11540-5	1

*UL water leakage test

For more information please visit: www.3M.com/firestop and search “water tight”

For additional questions and ordering, contact **1-800-328-1687**

SOUND BARRIER

CLASSIFIED

FILL, VOID OR CAVITY FOR USE IN JOINT SYSTEMS, THROUGH-PENETRATION FIRESTOP SYSTEMS AND PERIMETER CONTAINMENT SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 90G9

FBC
SYSTEM COMPATIBLE

ULC
LISTED

FILL, VOID OR CAVITY MATERIALS SEE INTERTEK DIRECTORY 90G9

ULC
LISTED

FIRESTOP SYSTEMS SEE INTERTEK DIRECTORY 90G9

SOUND BARRIER

CLASSIFIED

FILL, VOID OR CAVITY MATERIAL FOR USE IN JOINT SYSTEMS AND THROUGH-PENETRATION FIRESTOP SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 8R57

FBC
SYSTEM COMPATIBLE

ULC
LISTED

FILL, VOID OR CAVITY MATERIALS SEE INTERTEK DIRECTORY 8R57

ULC
LISTED

FIRESTOP SYSTEMS SEE INTERTEK DIRECTORY 8R57

Important Notice to User:

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for user's particular purpose and suitable for user's method of application.

Warranty and Limited Remedy: 3M warrants that each 3M Fire Protection Product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.



Building and Commercial Services Division
3M Center
Building 223-2N-21
St. Paul, MN 55144-1000
800-328-1687
www.3M.com/firestop

© 3M 2012. All rights reserved.
Printed in U.S.A. 98-0213-4373-0 REV B

Please recycle.

3M is a trademark of 3M. Used under license in Canada. All other trademarks are the property of their respective owners.