LISTING REPORT - MANUFACTURING

Issued: Sep 20 2012 11:07AM

Inspection Tests And Evaluation Of

Fire Door Solutions - Fire Door Caulk (28617)

RENDERED TO
Fire Door Caulk LLC
2932 Ross Clark Circle, Suite 436

Dothan, AL 36301

GENERAL: This Report gives the results of the inspection, tests and evaluation of the above for compliance with applicable requirements of the following standards : CAN4 S104 (1985) : NFPA 252 (2008) : UL 10(c) (2009) : UL 10(b) (2009) : CAN / ULC S104 (2010)

Correlation for Multiple Listees

This information is only available to the applicant.

PRODUCT DESCRIPTION

Product Covered:

Fire Door Solutions - Fire Door Caulk

Product Description:

FIRE RESISTANT PRODUCTS AND COMPONENT

Positive Pressure and Neutral Pressure Caulk Sealant For Wood Fire Doors

PRODUCT DESCRIPTION

Fire Door Solutions Fire Door Caulk
Intumescent Fire and Draft Sealant

- Up to 3/4" diameter holes through penetration in body of fire door core.
- Up to 1/2" diameter holes through penetration in top rail of fire door.
- Up to 1/4" diameter holes through penetration in top rail/core transition of fire door.
- Up to 1/4" diameter through penetration in stile of fire door.
- Up to 1/2" diameter through penetration in stile/core transition of fire door.

For use as a component in Mineral Core 45-90 Minute Flush Door NP, Mineral Core 45-90 Minute Flush Door Positive Pressure & 20 Minute Mineral, Engineered, Particleboard, Wood Block and Agrifiber Cores NP/PP doors. Doors must be listed for intended fire rated application.

LIMITATIONS

Wood Putty Fillers:

Up to a 1/16" layer of Wood Putty Filler may be used over the Fire Door Caulk product to conceal the caulk.

Attribute	Value
CSI Code	08 14 00 Wood Doors
Fire Resistance	90 Min Neutral Pressure
Fire Resistance	90 Min Positive Pressure
Listed or Inspected	LISTED
Report Number	100758576MID-001, 100758576MID-003
Criteria	CAN4 S104 (1985)
Criteria	NFPA 252 (2008)
Criteria	UL 10(c) (2009)
Criteria	UL 10(b) (2009)
Criteria	CAN / ULC S104 (2010)
Intertek Services	Certification
Listing Section	FIRE DOOR COMPONENTS
Verification Testing	YES
Verification Test Type	FTIR

MANUFACTURING INFORMATION

PRODUCT COVERED

Fire Door Solutions Fire Door Caulk

PRODUCT DESCRIPTION

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For use as a component in Mineral Core 45-90 Minute Flush Door NP, Mineral Core 45-90 Minute Flush Door Positive Pressure & 20 Minute Mineral, Engineered, Particleboard, Wood Block and Agrifiber Cores NP/PP doors. Doors must be listed for intended fire rated application.

APPLICATION

The manufacturer’s instructions and bulletins for mixing, application rates, pressing parameters, and safe use practices are to be followed.

- Up to 3/4" diameter holes through penetration in body of fire door core.
- Up to 1/2" diameter holes through penetration in top rail of fire door.
- Up to 1/4" diameter holes through penetration in top rail/core transition of fire door.
- Up to 1/4" diameter through penetration in stile of fire door.
- Up to 1/2" diameter through penetration in stile/core transition of fire door.

Manufacturing and Quality Control information, as provided by the Manufacturing Plant, is found in the Quality Control Information section of SpecDirect for Fire Door Caulk LLC.

LIMITATIONS

Wood Putty Fillers:

Up to a 1/16" layer of Wood Putty Filler may be used over the Fire Door Caulk product.

SIGNATURE PAGE

Reported By:

Emily J. Tucker
Project Engineer
Building Products Division

Reviewed By:

Greg Allen
Lead Technician - Fire
Building Products Division

DRAWING INDEX

Fire Door Caulk MSDS

Fire Door Caulk MSDS

MATERIAL SAFETY DATA SHEET

Fire Door Solutions LLC
Fire Door Solutions Name: Fire Door Caulk
Date Issued: June 2012

1. Product Identification

Ingredient	C.A.S. NUMBER
Product Name: Fire Door Caulk Product Type: Insulating Non-Combustible Filler Compound	None Assigned

Company Contact Information

Fire Door Solutions LLC
2932 Ross Clark Circle
Dothan, AL 36301

Emergency Telephone Number

CHEMTREC: 800-424-9300 (24 HOURS)
Telephone: 855-714-3473

2. Physical Data

Boiling Point: 212° F (100° C) @ 760 mmHg

Vapor Pressure (mmHg): 17@ 68° F (20° C)

Vapor Density: N/D

Evaporation Rate: N/D

Solubility in Water: Soluble

Volatile Organics: None

Voc Less H20: None

pH: 9

Melting Point: 3400° F (1870°C)

Specific Gravity: 1.31

Appearance and Odor: Reddish Thixotropic Paste having no distinguishable odor.

Fire Door Caulk MSDS (page 2 of 4)

3. Fire & Explosion Hazard Data

Flash Point: N/A

Extinguishing Medium: N/A

Flammability Limits-LEL: N/A

Special Fire Fighting Procedures: None

Flammability Limites-UEL: N/A

Unusual Fire & Explosion Hazards: None

4. Health Hazard Data

ROUTES OF ENTRY: (INHALATION: NO) (SKIN: NO) (INGESTION: YES) (EYES: YES)

Primary Ingredients are ground and pulverized minerals suspended in an aqueous solution.

ACUTE	**(SHORT TERM) OVEREXPOSURE**
Skin Absorption	None Reported
Eye Contact	May cause abrasion and irritation.
Inhalation	Sanding dust may cause irritation of breathing passages.

Skin Contact Prolonged exposure may cause dryness and irritation.

Ingestion None Reported

CHRONIC: **(LONG TERM) OVEREXPOSURE** **NONE**

CARCINOGENICITY: This product is not considered to be carcinogenic.

5. Emergency First Aid Procedures

Ingestion	Drink plenty of water. If discomfort persists see a physician.
Eye Contact	Flush eyes with clean water for 15 minutes or until no evidence of material remains. If discomfort persists see a physician.
Skin Contact	Wash thoroughly with clean water and mild soap. Avoid vigorous scrubbing which could cause abrasions and irritations. If discomfort persists see a physician.
Dust Inhalation	Remove from exposure area to fresh air. If discomfort persists see a physician.

Fire Door Caulk MSDS (page 3 of 4)

6. Precaution for Safe Handling

Handling	No special precautions are required.
Waste Disposal	Not a hazardous waste. Dispose is accordance with applicable federal, state and local regulations.

7. Control Measures

Work Hygiene Practices	Avoid creating unnecessary dust (sanding).
Respiratory Protection	Use a NIOSH approved dust mask when sanding in a confined area.
Eye Protection	Wear safety glasses or goggles when sanding.

8. Reactivity

Stability: Product is stable	Incompatibilites (Materials to avoid): None
Hazardous Polymerization: Will not occur	Hazardous decomposition Products: None

9. Special Precautions & Comments

Store at temperatures below 212° F (100°C)

All statements contained herein are believed to be reliable, but accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereof.

10. Additional Information

HMIS Ratings: Health	1	Flammability: 0	Reactivity: 0	Special: None
(EPA Hazard Ratings)		Immediate Health: 1 Pressure: 0	Delayed Health: 0 Reactivity: 0	Fire: 0

11. Toxicological Information

This product is considered non-toxic.

12. Ecological Information

Fire Door Caulk MSDS (page 4 of 4)

Aquatic Toxicity: None Waterfowl Toxicity: None

Biochemical Oxygen Demand: None Food Chain Concentration Potential: None

13. Transportation Information

This product is not a hazardous material for regulation by DOT.

COMPONENTS

Listing Report General Information

LISTING REPORT GENERAL INFORMATION

The Applicant have agreed to produce, test and label Intertek Listed products in accordance with the requirements of this Report. The Applicant has also agreed to notify Intertek and request authorization prior to using alternate parts, components or materials.

INSTRUCTIONS FOR USE

- One copy of this Report is submitted to the Applicant and used by the Intertek Field Representative for Follow-up Service Inspections; and
- One copy is retained in files at the Intertek Regional Certification Center.

The Applicant is to use this Report as a guide for the operation of the certification program, and will manufacture the Listed product(s) in accordance with the specifications information stated herein.

The Intertek Field Representative shall determine that the product is manufactured in accordance with this Report and that certification procedures are followed.

In the case where a discrepancy exists between the product and this Report, this Report will be considered correct, and therefore the Applicant has the responsibility for making the necessary corrections so that the product will meet the specifications stated herein.

COMPONENTS

Components used shall be those itemized in this Intertek Report covering the product, including any amendments and/or revisions.

CERTIFICATION MARK

The Intertek Certification Mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the Intertek Certification Mark is subject to the control of Intertek.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced Follow-up Service Inspections of the manufacturing facility shall be conducted by Intertek. A Follow-up Service Inspection Report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the Intertek Certification Mark with the requirements of this Report and the Intertek Certification Agreement.
3. In-plant quality control procedures and personnel.
4. Manufacturing processes and changes.
5. Performance of specified manufacturing and production tests.

In the event that the Intertek Field Representative identifies variance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the Intertek Certification Mark from non-conforming product.
3. Contact the Intertek office that issued this Report for additional instructions.

GENERAL REQUIREMENTS AND DEFINITIONS

Accepted - Accepted by Intertek. All inquiries regarding change to Listed products must be presented to Intertek in writing for consideration and acceptance.

Authorized - Authorized by Intertek. All inquiries regarding change to Listed products must be presented to Intertek in writing for consideration and approval.

C.S.A. - Canadian Standards Association.

Certified - Equipment or material included in a list published by a nationally recognized certification agency that conducts periodic inspections of production of Listed equipment or materials and whose listing stated either that the equipment or material meets recognized standards or has been tested and found suitable for use in a specified manner.

Construction Details - For specific construction details, reference should be made to the following photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements may also apply as applicable.

Discrepancy - A difference between this Report and a product described in this Report. This will result in the filing of a Variance Report on which a management level decision for the corrective action will be based.

Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the Manufacturer as required by the standard.

Listed - Equipment or materials included in a list published by a nationally recognized certification agency that conducts periodic inspections of production of listed equipment of materials, and whose listing states either that the equipment or materials meets nationally recognized standards, or has been tested and found suitable for use in a specified manner.

Listed Component - Identifies any product covered under the Listing or Certification service of an NRTL (US) or a CO (Canada).

Markings - The Intertek Certification Mark shall be visible after installation. Other markings may be required as identified in this Report. If evaluated to a Canadian standard, the products may be required to have markings in both French and English. If so, it is the responsibility of the Applicant to determine any such requirement and provide bilingual markings, where applicable, in accordance with the Provincial Regulatory Authorities.

N.F.P.A. - National Fire Protection Association.

Production Test Requirements - When applicable, the Manufacturer shall have the necessary test facilities to carry out production tests on the Listed product.

Products - The product as described under "Authorization to Mark" is eligible to carry the Intertek Certification Mark.

Recognized Component - Identifies any component, part or sub-assembly, covered under the recognition service of an NRTL (US) or a CO (Canada), and intended for use in Intertek Listed, Intertek Classified, or Intertek Recognized products.

Records - Records of the use of the Intertek Certification Mark must be maintained by the Applicant and must be available for review during normal business hours.

Shipping - As practically as possible, each Listed product is to be shipped completely assembled and incorporate the necessary safety and installation instructions.

Standards - The Manufacturer shall have in his possession all the current standards/specifications for the Listed product.

U.L. - Underwriters Laboratories Inc.

ULC - Underwriters' Laboratories of Canada.

Unlisted Component – Because unlisted components are uncontrolled, and they do not fall under a third party follow up program, ITS may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process.

Use of Mark - The Components containing the Intertek Certification Mark (i.e. ink stamps, labels) must be kept in a secure area, preferably locked and must not leave the designated manufacturing plant(s) location(s) unless authorized by Intertek. Records on the use of the mark are to be maintained up-to-date. The Intertek Certification Mark and associated product identification must be clearly visible and legible when applied to the finished product. Products to be marked must have successfully passed the production tests and scrutiny of the quality control personnel, determining that the product complies with the specifications stated in this Report. Failure to comply with procedures constitutes ground for withdrawal of Intertek authorization to use the Intertek Certification Mark.

Ordering Labels - It is the responsibility of the Applicant to ensure that an adequate stock of labels is maintained. Label quantities in stock are indicated on all packing slips issued by Intertek.

Modification Procedure - Intertek may approve modifications of a product based on an additional

evaluation or tests. Fees are charged for this service. If modifications are desired, such as substituting a different material, changing the cosmetic appearance, changing the rating, altering a component to simplify the manufacturing or improve the product, or any other change, the following procedure must be followed:

1. Write the Intertek office that issued this Report requesting an evaluation of the modification required. Include a clear description and detailed drawings if required showing exactly what is involved, and state your reason for wanting to make the modifications.
2. Wait until written authorization is received from Intertek complete with additional or revised pages to be inserted into your Report. Only after written authorization is received may the Applicant proceed with the modification.

INITIAL FACTORY AUDIT

Purpose - The purpose of this audit is to ensure the following:

1. The Plant Manager, Foreman and Quality Control Personnel are familiar with this Report.
2. The Plant Quality Control Program will assure that the product is manufactured to the requirements in this Report.
3. Key personnel are familiar with and recognize the need for Follow-up Service Inspections as well as proper handling of the Intertek Certification Mark and the use of log sheets, where applicable.
4. The duties of the Controller of the Intertek Certification Mark are properly understood.

Equipment or Supplies Needed

1. Applicable Specifications.
2. Applicable Standards.
3. Supply of log sheets where applicable.
4. Intertek Certification Mark Controller instruction sheet with sample log sheet.
5. Supply of open stock/custom labels or stamp, etc.

Initial Factory Audit Procedures - The initial inspection (pre-arranged with date and time agreeable to both the Applicant and the Intertek Field Representative) will consist of an initial meeting with the Plant Manager, Plant Foreman, Quality Control Manager and other key personnel. The initial meeting will cover a complete review of the Report and production facilities.

INTERTEK FOLLOW-UP SERVICE INSPECTIONS

The Intertek Field Representative shall determine that the product is manufactured in accordance with this Report, and that label procedures are followed.

Label Control - Record serial numbers of labels if applicable, in the plant. Inspect label log sheets. The following information should be recorded in the label log sheets by the manufacturer:

1. Label numbers, date labeled or shipped, product labeled, and destination.
2. Labels removed from, returned, freight damage, or rejected products should be picked up.

Examination of Product - At each Follow-up Service Inspection the Intertek Field Representative shall determine that the product which is intended to bear the Intertek Certification Mark is manufactured in accordance with the specified standards as per the test program and stated herein. The Intertek Field Representative shall pay special attention to the following:

1. Materials used must be free from defects that could affect the performance of the product.
2. Suitable protective packaging.
3. Complete safety and installation instructions are supplied with each product. No modification to these instructions shall be made without Intertek authorization.

Examination of Applicant's Inspection Programs - At each Follow-up Service Inspection, the Intertek Field Representative shall determine that the Applicant's methods of inspection conform to the specifications included in the quality control procedures. The Intertek Field Representative will pay attention to:

1. The Applicant's quality control report is complete and conforms to the procedure accepted by Intertek and included in this Report.
2. The equipment used for inspection conforms to the specification in the quality control procedure.The work area is suitable for a good quality control program.
3. Regular manufacturing production line tests are carried out by the Applicant.

Discrepancies - The Intertek Field Representative shall complete his Follow-up Service Inspection sheet detailing the discrepancy and issue a Variance Report. A signature on the Intertek Field Representative's copy shall be obtained from the Applicant's representative, giving evidence that they were issued a copy. Copies shall be forwarded to the Intertek Regional Certification Office.

The Intertek Field Representative shall require that the Applicant remove the Intertek Certification Mark from all products which do not meet the conformance requirements of this Report, and advise the Applicant not to use the Intertek Certification Mark until further advised.

In the case of minor cosmetic changes the Intertek Field Representative will note the variance on his Follow-up Services Inspection Report and determine the action to be taken by the Applicant. Actions may be to have the Applicant apply to Intertek for an evaluation of the variance and if approved, the subsequent modification of this Report, or to have the Applicant agree to correct the variance on all affected units.

On subsequent routine Follow-up Service Inspections, the Intertek Field Representative will pay special attention to any variances listed in previous Follow-up Inspection Reports. If it is found that a variance has not been corrected as agreed to by the Applicant, the Intertek Field Representative will contact Intertek Regional Certification Center for appropriate instructions. In extreme cases, service could be immediately suspended.

In the case of a difference existing between this Report and the product that could result in a safety hazard, the Intertek Field Representative will fill out a Variance Report. The determination of what constitutes a variance is left to the discretion of the Intertek Field Representative, but any modification or change that could affect the operating characteristics of a product must be reported. The action taken by Intertek will be:

1. Removal of all labels or the Intertek Certification Mark or halting the shipping of the affected product until the Applicant corrects the variance, or has an evaluation carried out by Intertek,

the modification approved, and this Report updated.
2. For units already shipped, procedures must be taken per Intertek SOP 7.14.2.

Verification Center (WI)

VERIFICATION CENTER GENERAL INFORMATION

The Verification Center laboratory in Middleton, Wisconsin, has been developed to provide rapid analytical verification of specimens for Intertek Certified products which have been selected by Intertek auditors performing their quarterly inspections. Intertek, as a third-party testing, inspection, and certification program in compliance with ISO/IEC Guide 65 General requirements for bodies operating product certification systems, operates the program. Intertek is a nationally recognized independent testing laboratory and maintains accreditations and recognition for these services by the Standards Council of Canada (SCC) and all major building code authorities in North America.

The Verification Center is equipped with a range of analytical instruments capable of verifying the chemical or physical properties of submitted materials. These materials are submitted by the Intertek Field Inspector during the performance of the quarterly in-plant audits. These specimens are tested in accordance with the analytical analysis described in the Listing Report for that Certified Product, and compared to the results of the same analysis performed on samples of the product that was initially qualified for entry into the Intertek certification program.

All sampling requirements to be performed by FUS Inspectors must be documented within the Listing Report under the Manufacturing Information section.

INSTRUCTIONS FOR SAMPLING

1. Certification will request an IFA or FUS Inspection to be performed at the client's facility.
2. During the inspection process, the Inspector will procur a sample of the product being manufactured.
3. The sample piece size requirements are a sample that is a minimum of one cubic inch or a prepackaged container less than twenty pounds.
4. The sample is to be labelled by the Inspector, indicating the product name and model, and package the sample.
5. The sample is shipped from the client's facility to the following location:

   Intertek - Verification Center
   Attn: Verification Manager
   8431 Murphy Drive
   Middleton, WI 53562
   USA
6. The Verification Center will recieve and log the samples for appropriate analytical chemical analysis.
7. An initial baseline report will be established by the first test of the product and will be used in comparison for all subsequent tests.
8. In the case where a discrepancy exists between the baseline report and comparison test of same product, Certification and Inspections Manager will be informed of non-compliance.
9. Intertek will investigate all analytical indications of possible non-compliance promptly completing an analytical test that so indicates. All indications of non-compliance are handled through written

procedures detailed in the Quality System.

10. The samples are held for 60 days and then destroyed.

CONFIDENTIALITY

All test data, reports and design documentation produced under this program is considered the proprietary confidential property of the participant and will not be released to any other party without the participant's expressed written authorization.

WH Labeling - Component Marking (new Intertek Mark)

LABELING REQUIREMENTS FOR PRODUCTS BEARING THE WHI CERTIFICATION MARK

COMPONENT MARKING

REQUIRED ITEMS:

- WH Recognized Component Mark [1] without Country Identifiers
- Product Designation including name/model [2]
- Rating (if a product is eligible for multiple ratings of the same type, for example 20 minute and 45 minute fire resistance rating, only one rating may be applied to the product at any time)
- Control Number [3] or Manufacturer's Name [4]

Note: Refer to the attached diagram for example of the Mark

[1] If space or size do not permit the reproduction of the Intertek name, it may be omitted.
[2] The Product Designation must be sufficient to identify the product's manufacturing Listing Report.
[3] Control Number = Listee's Oracle Client Number or previous Intertek Client Number.
[4] If multiple plants, then location or location code shall be noted on label.

This area is intentionally left blank. Please refer to the attached diagram(s) for information.

Nothing selected
Nothing selected
Nothing selected
Nothing selected

ADDITIONAL REQUIREMENTS DRAWING INDEX

Intertek Warnock Hersey Recognized Component Certification Mark

Intertek Warnock Hersey Recognized Component Certification Mark

COMPONENT CERTIFICATION MARK (aka FURTHER PROCESSING MARK)

DOES NOT BEAR “C & US” OR “US ONLY” COUNTRY IDENTIFIERS
USED BY MANUFACTURERS ONLY