

Product Data Sheet

Firetemp® SL

Product Description

Firetemp® SL is a latex-based pourable elastomeric sealant primarily used to firestop horizontal designed joints and service penetrations passing through floors. This high solids self-leveling sealant is designed to stop the passage of fire, smoke and fumes through rated floor assemblies. Firetemp® SL forms a tight bond to most common construction materials. When the correct amount is poured into floor openings around penetration or into the joints, this material flows and self levels to the required sealant thickness. It provides a faster and sometimes easier alternative to caulking material especially in hard to reach applications. Firetemp® SL is non-toxic and after fully cured, Firetemp® SL will remain flexible, water resistant and paintable. (Use water base paints only)

Applications

Firetemp® SL self-leveling sealant can be used in a variety of floor penetrations, joints and voids. The most common uses are; metallic pipes, conduit, mechanical ducts, insulated pipe, plastic pipe, electrical cables, wires, multiple penetrations, cable tray, voids, perimeter joints and horizontal expansion joints. Firetemp® SL has superior adhesive qualities when applied to, concrete, concrete block, steel, wood and gypsum wallboard.

Advantages

Firetemp® SL is a self-leveling material primarily used for firestopping floor penetrations and joints. The single most important advantage for using a

gravitational flowing product is it does not have to be tooled after being installed. It can be “squirted” into openings from a distance where access is limited and using a conventional caulking gun and cartridge is not an option. A pourable sealant is also a convenient option to spray applied material for floor joints where spray equipment may not be available and caulking is impractical.

Components

Firetemp® SL, being a pourable product, is a two component firestop system and requires the installation of mineral wool insulation material. (See Installation Section)

Versatility

Firetemp® SL has a certain amount of application versatility as it does not always have to be dispensed from the original container. This pourable sealant can be transferred to another container if doing so allows for easier installation.

Systems Testing

Underwriters Laboratories (UL) and ITS Warnock Hersey are fire endurance testing agencies accredited by ICBO, BOCA, and SBCCI (National Evaluation Services) in the United States. In Canada, ITS Warnock Hersey & cUL are accredited by the Building Standards Council of Canada (SCC). Certifications provided by ITS Warnock Hersey have equal status with those provided by Underwriters Laboratories (UL) and Underwriters Laboratories Canada (ULC). Firetemp® SL has been fully tested and meets or exceeds the requirements of: ASTM E-814, ASTM E-119, UL 1479, UL 2079, ULC S-115-M95 and CAN/ULC-S101. Firetemp® SL has

Disclaimer: All technical advice, recommendations and services rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by persons having the skills and know how, at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



Product Data Sheet

Firetemp [®] SL

also been tested and meets the classification for less than 25 flame spread and less than 50 smoke development (NFPA Class “A”, Building Code Class “1”)

Limitations

Apply in horizontal assemblies only. Slower cure time may be experienced if the installed sealant is in a low temperature, damp or high humidity environment. The environment in which the compound is being used should be considered when estimating cure times. **This product is not designed to be a waterproof seal.** It should not be installed where there will be continuous wet conditions or immersed in water continuously.

Installation

Firetemp[®] SL must be installed in compliance with the listed system designs published by third party testing laboratories (UL, ITS Warnock Hersey). Refer to their respective published Fire Resistance Directories or Websites.

To install, remove standing water as well as excess dirt and dust. Install mineral wool insulation at 4 to 6 lbs. per cubic foot density, compressed a minimum of 25% to a minimum depth of 3 ½ “(87mm) or as required by the tested and listed system being used. Apply Firetemp[®] SL sealant to a depth that will result in the required cured thickness (i.e. 5/16” (8mm) wet to get ¼” (6.25mm) dry thickness). Curing time will always vary depending on the environment. For best results, atmospheric temperatures should be **10° C - 32° C (50° F - 90° F) at 50% R.H.** Do not apply this product to mineral wool that is or has been wet from exposure to water, standing water, rain or snow. The manufacturer recommends this product be

Disclaimer: All technical advice, recommendations and services rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by persons having the skills and know how, at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.

installed by those trained in proper installation procedures and able to read and understand a firestop system design listing (i.e. UL listing design)

Caution: Mineral wool may cause eye, skin and respiratory tract irritations. Avoid contact with eyes, skin and clothing. Recommend use of gloves and goggles. Refer to material safety data sheet from insulation material supplier.

Available Forms

- 35.2 ounce (1L) plastic bottle
- 29 ounce (850ml) cartridge
- 2.65 gallon (10.0L) plastic tote bottle
- 5 gallon (18.9 liter) tapered plastic pail

Technical Services

For technical information and assistance regarding application information, code approvals and performance specifications call 1-888-322-1129. If this piece is more than one year old, contact Johns Manville for the most recent information.

Storage, Handling, Transportation, First Aid

Firetemp[®] SL should be stored in an area where the temperature range is between 4°C - 32°C (40°F - 90°F). **DO NOT ALLOW TO FREEZE.** Keep product stored under protective cover in its original sealed container. Recommended transportation temperature range is 7°C - 32°C (45°F - 90°F). Products have a shelf life of 1 year and a stock rotation program is recommended.

First Aid: In case of contact with eyes, flush with water and consult physician. Skin contact, clean up thoroughly with plain or soapy water. Contact a physician if eye



Firetemp â SL

or skin irritation develops or persists. See MSDS for additional information.

Specifications

Table 1. Firetemp® SL Self Leveling Test Data.

Type.....	Waterborne Resin
Color	Rust Red
Odor.....	Mild latex
Solids Content (Wt.).....	75+5%
Ph (ASTM D-70).....	8-10
Specific Gravity (ASTM D-1475)....	1.20-1.50
Viscosity (ASTMD-2196)...	32,000-57,600cps
Application Temperature.....	10°C-32°C
.....	(50°F-90°F)
Drying Time (ASTM D-1640)	
Dry to touch @ 6 mils.....	30-40 min
Average Cure time.....	7-21 days
(Depending on thickness and environment)	
In Service Temperature....	up to 49°C (120°F)
Full Cure and Adhesion.....	7-21 days
@ 25°C and 50% R.H.	
Freeze – Thaw (ASTM D-2243).....	Passed
Flame Spread.....	<25
Smoke Development.....	<50

Disclaimer: All technical advice, recommendations and services rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by persons having the skills and know how, at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



MATERIAL SAFETY DATA SHEET

Product Identifier	Firetemp SL					
Product Use	Fire and Smoke Stop Self-Leveling Sealant					
Manufacturer	Passive Fire Protection Partners, 1412 Derwent Way, Delta, BC V3M 6H9					
Emergency Number	(800) 810 – 1788					
INGREDIENT INFORMATION						
Ingredient	CAS Number	% (wt.)	LC₅₀ (rat)	LD₅₀ (rat)	TLV	STEL
Water	7732-18-5	10.0 – 35.0	N/A	N/A	N/E	N/E
Vinyl Acetate Monomer	108-05-4	0.07 - 0.08	11400 mg/m ³ /4H	2900 mg/Kg	10 ppm	N/A
Vinyl Acetate Polymers	25067-01-0	20.0 - 30.0	N/A	N/A	N/A	N/A
Formaldehyde	50-00-0	10-40 ppm	250-478 ppm/4H	100 mg/Kg	N/A	2 ppm
1,2-Propylene Glycol	57-55-6	0.6 – 0.7	N/A	20–34 g/Kg	50 ppm	N/A
Iron Oxide	1309-37-1	0.4 – 0.5	N/A	N/A	N/A	N/A
Calcium Carbonate	1317-65-3	35.0 – 55.0	N/A	N/A	N/A	N/E
Ammonia	7664-41-7	50-60 ppm	2000 ppm/4H	N/A	25 ppm	N/E
PHYSICAL PROPERTIES						
Appearance / Physical State	Red, viscous compound		Specific Gravity (@25°C)		1.20 – 1.50	
Odor	Mild odor		Evaporation Rate		< 1	
Odor Threshold	Slightly aromatic odor		Boiling Point (°C)		> 100	
Vapor Pressure (mm Hg)	17.55		Freezing Point (°C)		0	
Vapor Density (Air = 1)	of Water vapor		pH		8 – 10	
Coefficient of H₂O/Oil Distrib	Not determined		VOC contents (g/L)		26.0	
FIRE AND EXPLOSION DATA						
Flammability	No					
Means of Extinction	Normal fire fighting procedures should be followed to avoid inhalation of smokes and gases.					
Special Fire-fighting Procedures	Firefighters should wear the usual protective gear use self-contained breathing apparatus.					
Auto-ignition Temperature (°C)	N/A		Upper Flammable Limit (% , Volume)		N/A	
Flash Point (°C) / Method	N/A		Lower Flammable Limit (% , Volume)		N/A	
Sensitivity to Mechanical Impact	No		Sensitivity to Static Discharge		No	
Hazardous Combustion Products	Carbon Monoxide and/or Carbon Dioxide					
REACTIVITY DATA						
Stability	Stable at normal condition		Condition of Reactivity		Contact with incompatible substances	
Incompatible Materials	Reacts with strong acids and liberates carbon dioxide					
Hazardous Decomposition Products	Dried films forced to burn will produce carbon monoxide, carbon dioxide and hydrocarbon oxidation products.					
TOXICOLOGICAL PROPERTIES						
Routes of Exposure	Skin contact		Skin absorption		Eye contact Inhalation Ingestion	
Effects of Acute Exposure to Product	Skin and eye irritation may occur after contact with the product.					
Effects of Chronic Exposure to Product	None Known					
Exposure Limits	10 ppm for vinyl acetate monomer (ACGIH)					
Irritancy of Product	Slight on skin and eyes					
Sensitization of Product	None Known					
Carcinogenicity	OSHA, NTP, and ACGIH have not classified this product as a carcinogen. However, Vinyl Acetate is identified by IARC as a potential carcinogen on testing on laboratory animals. But there is no evidence that it has caused cancer in human.					
Teratogenicity	None Known					
Reproductive Toxicity	None Known					

FIRST AID MEASURES	
Eye Contact	Flush with large quantities of water gently for 15 minutes and get medical attention.
Skin Contact	Wash with soap and water immediately.
Inhalation	Remove affected person away from source of exposure to fresh air and get medical attention IMMEDIATELY
Ingestion	Get medical attention IMMEDIATELY.
PREVENTIVE MEASURES	
Engineering Controls	General ventilation is recommended during normal use.
Personal Protective Equipment	Not generally required during normal use and handling.
Eye Protection (Specify)	Face shield or chemical goggles are recommended.
Skin Protection (Specify)	Chemical resistant nitrile, neoprene or rubber gloves are recommended if contact with the product is made.
Respiratory (Specify)	Respiratory equipment is recommended if the product is being installed in poorly ventilated areas.
Other	
PRECAUTION FOR SAFE HANDLING AND USE	
Handling Procedure and Equipment	N/A
Storage Requirement	Material should be kept in a closed containers and stored between 4 – 32°C (40 –90°F)
Spill, Leak or Releases	Wear protective equipment during cleanup.
Waste Disposal	Care should be taken to ensure that the material and its containers are disposed of in an approved facility, state, provincial and local regulations.
Special Shipping Instructions	DO NOT ALLOW PRODUCT TO FREEZE.
REGULATION INFORMATION	
WHMIS	Not controlled
HMS	Health 1, Flammability 0, Reactivity 0
TDG Regulation	Not classified as a hazardous material.
TSCA	All ingredients of this product are on the inventory list.
DSL	All ingredients of this product are on the list.
PREPARATION INFORMATION	
Prepared by	Chemical Laboratory, Passive Fire Protection Partners
Preparation Date	08 November 2002 Telephone (604) 515-1788
Abbreviations Used	<p>N/E= None Established; N/A = Not Applicable or Not Available CAS Number = Chemical Abstracts Series Number; % (wt.) = Weight percentage LC₅₀ = Lethal Concentration, 50%; LD₅₀ = Lethal Dose, 50%; H = Hours TLV = Threshold Limit Value; STEL = Short Term Exposure Limit VOC = Volatile Organic Compounds ACGIH = American Conference of Governmental Industrial Hygienists DSL = Domestic Substance List in Canada; HMS = Hazardous Material Identification System IARC = International Agency for Research on Cancer; NTG = National Toxicology Program OSHA = The Occupational Safety and Administration TDG = Transportation of Dangerous Goods; TSCA = Toxic Substance Control Act in US WHMIS = Workplace Hazardous Material Identification System</p>

This information is provided in good faith and is correct to the best of PFP Partners' knowledge as of the date hereof; however, PFP Partners makes no representation as to its completeness or accuracy. Customers are encouraged to make their own determination as to the suitability of this product for their purpose prior to use. PFP Partners disclaims responsibility to damages of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES.