

### *A history of turning seconds into hours, when time means everything.*

In a battle against fire, every second counts. That's especially true if openings exist between adjacent rooms or floors within a building, such as those made to accommodate pipe, conduit, ducts and cables. Such pathways for voice, data, video, power, plumbing and ventilation can quickly become pathways for fire.

Nelson Firestop is a company uniquely equipped to specify firestopping solutions for each and every penetration throughout the entire building. It is hard-earned skill that deals with every high stakes. The fact is, a wrongly chosen firestopping product may, to the untrained eye, appear sufficient on most counts. It may even comply with building and fire codes. However, just one incorrect choice, or the right choice improperly installed, can spell the difference between minor damage and total disaster. To deal effectively with the complexity of firestop selection, the best and simplest path is to consult Virgo Specialties Private Limited.



#### Nelson FSP™ Firestop Putty Bars and Pads

FSP™ is completely premixed and ready -to-use formula that can be hand pressed into place forming an immediate fire seal. When exposed to fire the intumescent material expands to seal voids created from fire exposure on deteriorating penetrating items. FSP is reusable when adding or changing penetrating items since the material remains pliable and does not set up.

##### Features

- Intumescent • Up to a 3-Hour Rating • Smoke and Gas tight • Weather Resistant • Excellent Shelf Life
- Acoustically Tested-Reduces noise transmission Halogen Free • Reusable for convenient Retrofit.

##### Physical Order

- Color-Tan • Density-0.049 lbs\cu.in • Consistency 7.00mm (Penetrometer) • Activation Temp-500F (260c) max • Application Temp-40°F (4°C) to 110°F (43°C) • Dielectric Strength >356v/mil • STC Rating-54.

##### Test Compliance

- ASTM E84 Flame spread-5,Smoke Deveoped-10 • ASTM E90 Standard Test Method for laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and element • ASTM E814 and UL 1479- Test method for through stop fire penetrations • NFPA 70 "Wall opening Protective Materials"
- ANSI/U 263,"Fire Tests of Building Construction and materials".



#### Nelson CLK™ Firestop Silicone Sealant

CLK™ is a family of one part silicone flexible sealants, used to protect from the spread of fire, smoke, gases and water. It is designed for application of through stop penetrations and in construction joints. It is offered in two forms, a non-sag caulk which can be troweled an self leveling grade suited for floor applications.

##### Features

- Up to 4 Hour Rating • Elastomeric (Flexible Cure) • Silicone Based • Water Resistant • Acoustically Tested-Reduces noise transmission.

##### Physical Order

- Color- Brick Red • Weight-10.75 lbs\gal • Consistency-Thixotropic • Application Temp-40°F (4C) to 90°F (32C) • Service Temp-0F (-18°C) to 110°F (43°C) • Cure Time-Less than 2 weeks for1\2" thickness
- Hazardous Ingredients-None • STC Rating-52 • Halogen Free.

##### Test Compliance

- ASTM E84 • ASTM E90 Standard Test Method for laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and element • ASTM E814 and UL 1479-Test method for through stop fire penetrations • ASTM E1966 and UL2079 Test method for fire resistance of building joint systems.



#### Nelson PLW™ Firestop Pillow

PLW™ is a compressible firestop device that is well suited for installations where frequent changes may be required. PLW™ consists of a mineral fiber treated with a highly intumescent material enclosed in a strong polyethylene bag. When exposed to fire, the pillow expand to lock the seal in place. Even though PLW™ is classified as a permanent firestop system for several applications including steel and aluminium PLW™ is also an excellent temporary seal.

##### Features

- Up to 3 Hour Rating • Unlimited shelf life • Easy to install • Highly intumescent • Highly compressible
- No disagreeable Toxic or hazardous fumes • Easily Reopenetrated.

### Physical Order

• Color- Safety Orange • Asbestos Filler-None • Solvents-None • Hazardous Ingredients-None • Activation Temp-Initial>275°F (135°C) • K-Value-0.25 BTUin./hr.sq.ft.f • Polyethylene Thickness-4 mils

### Test Compliance

• ASTM E 119 and UL263, Fire Tests of Building Construction and materials • ASTM E814 and UL 1479, test method for through stop fire penetrations.



### Nelson LBS3™ Firestop Latex Sealant

LBS3 is an electronic, water based intumescent, intumescent, fire protective sealant. It is designed for applications of through firestop penetrations and in construction joints. It is used to seal against the spread of fire, smoke, gases and water.

### Features

• Up to 3 hour Fire Rating • Water Based- Easy Clean up • Elastomeric, Flexible cure • Highly Intumescent • Paintable • Water Resistant • No solvents, silicones or outgassing • Acoustically Tested- reduces noise transmission.

### Physical Order

• Color-Red • Cure time-(Skin Cover)-Approx. 2 Hr. & (Full Cure)-3 to 4 weeks • Asbestos Filers-None • Solvents-None • Density-10.0 lbs\gallon • VOC Content-10.86g\l • Activation Temp-40°F (4°C) to 90°F (32°C) • Activation Temp-Exp begins @ 250 • STC rating-52.

### Test Compliance

• ASTM E84 and UL 723. a) Flame spread-0 b) Smoke Developed-5 • ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of building partitions and elements • ASTM E814 and UL 1479, test method for through stop fire penetrations • ASTM E 1966 and UL 2079 Test method for fire resistance of building joint systems • ASTM C 719 Adhesion and Cohesion of Elastomeric joint Sealants under cyclic movement.



### Nelson ES1399™ Firestop Elastomeric Sealant

ES1399 is a cost effective; water based acrylic latex, endothermic, fire protective sealant. It is designed for applications of through firestop penetrations and in construction joints.

### Features

• Up to 4 Hour ratings • Water based acrylic latex easy clean up • Economical • Elastomeric (flexible cure) • Paintable • Water resistant • Acoustically Tested- Reduces noise transmission.

### Physical Order

• Color-red • Weight-10.75 lbs. per gallon • Consistency-Thixotropic • Application Temp-40°F (4°C) to 90°F (32°C) • STC rating-52

### Test Compliance

• ASTM E84 : a) Flame spread-0 b) Smoke Developed-30 • ASTM E90 Standard Test method for Laboratory Measurement of Airborne Sound Transmission Loss of building partitions and elements • ASTM E814 and UL 1479 Test method for through stop fire penetrations • ASTM E1399 Test method for cyclic movement and measuring min. and max. Joint width • ASTM E1966 and UL2079 Test Method for fire resistance of building joint systems.



### Nelson FSC™ Firestop Cable Coating

FSC™ is a water based, intumescent, fire protective coating designed to enhance the fire resistance of electrical power, communications and control cables. It is commonly applied to continuous cable runs to prevent the propagation of fire. It is designed for labor saving spray applications on cables.

### Features

• Water based Acrylic latex- easy clean up • Intumescent • No cable De rating • Elastomeric (Flexible Cure) • Paintable • Water resistant

### Physical Order

• Color- off white • Coverage-14Sq.ft. per gallon • Weight-9.9 lbs. per gallon • Viscosity-60m cps max • VOC Content-Negligible • Intumescent Expansion-600% • Drying Time-To touch-2hrs complete 24-48 hrs

### Test Compliance

• ASTM E84 : a) Flame spread-15 b)Smoke Developed-45 • ASTM E 162 Specific Flammability of materials using a radiant heat energy source • IEEE 383 Vertical Flame spread on grouped cables.



### Nelson FSC3™ Firestop Joint Coating

FSC3™ is a water based acrylic latex, elastomeric, fire protective coating for use on construction joints. It is designed for labor saving spray applications onto construction joints and perimeter joint systems. FSC3™ is specifically for applications where thermal expansion and contraction of joints, wind sway or seismic conditions may also be encountered.

#### Features

- Up to 4 Hour ratings
- Water based Acrylic latex- easy clean up
- Elastomeric (Flexible Cure)
- Paintable
- Acoustically Tested- Reduces noise transmission

#### Physical Order

- Color – Red
- Coverage- 65Sq.ft. per 5 gallon pail
- Weight-10.5 lbs. per gallon
- Viscosity- 24m cps max.
- Application Temp- 40°F (4°C) to 90°F (32°C)
- PH-8.0-9.0
- STC Rating-52

#### Test Compliance

- ASTM E84 : a) Flame spread 0 b) Smoke Developed-0
- ASTM E90 Standard Test Method for laboratory Measurement of Airborne Sound Transmission Loss of Building partitions and Element
- ASTM E1399 Test method for cyclic movement and measuring min. ad max. Joint width
- ASTM E1966 and UL2079 Test method for fire resistance of building joint systems
- ASTM E814 and UL 1479 test method for through penetrations firestop



### Nelson CMP™ Firestop Compound

CMP™ is a cementitious material that is mixed with water. It is similar in appearance to mortar and can be troweled to a smooth finish that provides a weather resistant, non-shrinking fire-rated seal.

#### Features

- Up to 4 Hrs rating
- Economical
- Non-Shrinking
- Paintable
- Water Resistant
- Non-Toxic
- Excellent shelf life
- Ideal for large openings
- Acoustically Tested-reduces noise transmission.

#### Physical Order

- Color-red
- Weight-44lbs. per bag
- Yield per bag-1000cu.in
- Application Temp-40°F (4°C) and above
- Set up time-4 hrs
- Cure time-4 weeks
- Hydrostatic pressure >30psi (206kpa)
- Mix ratio-water to CMP compound : (a) 1:4.0-420psi (2895.8kpa) (b) 1:3.5-395psi (2723.5kpa) (c) 1:3.0-300psi (2068.4kpa) (d) 1:2.5-240psi (1654.7kpa)

#### Test Compliance

- ASTM E119 and UL263, Fire tests of building construction and materials
- ASTM E814 and UL 1479, Test method for through stop fire penetrations



### Nelson PCS™ Pipe Choke System

PCS™ is a prefabricated device used to seal penetrations and maintain the rating of fire rated floors and walls. The pipe choke is designed for penetrations of non-metallic pipes. When exposed to fire, the intumescent material expands to seal voids created from fire exposure on deteriorating penetrating items. The PCS™ consists of a heavy gauge metallic collar filled with a highly intumescent, pliable material.

#### Features

- Up to 3-hr ratings
- Unlimited shelf life
- Easy to install
- Highly intumescent
- VOC complaint
- Non-toxic
- Retrofittable
- Does not require additional caulking

#### Physical Order

- Color-Silver
- Asbestos Filler-None
- Solvents-None
- Hazardous Ingredients-None
- Intumescent Expansion Activation Temp-Initial 300F
- VOC Content-Negligible
- Volume increase->300%
- Density-1.4lbs/cu.in.
- Application Temp- 40°F (4°C) to 90°F (32°C)

#### Test Compliance

- ASTM E119 and UL263, Fire Tests of Building Construction and materials
- ASTM E814 and UL1479, test method for through stop fire penetrations.



### Nelson WRS3™ Firestop Wrap Strip

WRS3™ is a highly intumescent firestop wrap system. When exposed to fire, the wrap strip expands and forms a hard char to seal off the penetrating item and preventing the passage of fire and hot gases.

#### Features

- Up to 3-hr ratings
- Ease of installation
- Highly Intumescent
- Excellent Freeze-thaw
- Asbestos Free
- Solvent Free
- No hazardous ingredients
- Cost Effective
- Water resistant.

#### Physical Order

- Color- Red
- Intumescent Expansion Activation- 250°F (121°C)
- Service Temperature 40°F (4°C) and 90°F (32°C).

#### Test Compliance

- ASTM E814 (UL1479)



### Nelson FSB™ Firestop Board

• Nelson Fire Stop Board has a 1200mm x 600mm x 60mm 160kg/m3 stone fibre core coated with the ablative sealant on both sides • At normal temperature, the Nelson Fire Stop Board installed with sealant remains flexible to permit thermal and mechanical movement of the services • Both products are unaffected by oil, fungus, moisture and contain no halogens or asbestos.

#### Features

• Suitable for indoor use without additional environmental protection • Remains flexible between -4°C to +70°C • Easy to use fibre free sealant • FSB standard 50mm thickness gives 4 hours fire and smoke barrier up to 2 hours insulation • Long life and easy to use Suitable for large openings in walls and floors with additional supports.

#### Physical Order

• Dimensions: 1200mm x 600mm x 60mm • Stone Fibre Density: 160 Kg/m3 • Coating Thickness: 1 mm nominal, 2.2kg wet film coating • Fire Resistance: 4 hours-BS476 pt20/22, BSEN 1366 pt 3 • Insulation (Single Batt) : 142 minutes on seal face, 29 minutes on services • Insulation (Double Batt): 264minutes on seal face, 69 minutes on Minutes Service.

#### Test Compliance

• Nelson Fire Stop Board are manufactured in the US, meeting the highest quality standard in compliance with BS EN ISO 9001:2008.



### Nelson MCT and MPS Multi Cable Transit

Multi cable transit is based on simple but effective design. It consists of a rectangular metal frame suitable for floor or wall installation, which is available in single or multiple units. Each frame contains an arrangement of Tecron elastomer modules grooved to fit snugly around cables, pipes, or conduits passing through the frame. The intumescent Tecron modules expand when exposed to heat, providing a continuous seal even if cable jackets disintegrate. The entire assembly within each frame is locked in position to prevent dislodgment and the spread of fire and the products of combustion.

#### Features

• Neoprene based-good resistance to acids, gasoline, lube oils, animal and vegetable oils, oxidation, ozone and weather • Good dielectric strength • High tensile strength, tear resistance, abrasion resistance • Good rebound characteristic • Up to 4 hour fire rating.

#### Physical Order

• Boiling Point: Not established • Specific Gravity: @68°F 1.7 – 1.9 • Vapour Pressure (mmhg) and temperature : solid • Evaporation Rate: Solid • Solubility in water: Slight • Appearance: Brick Red • Odor: None • Durometer Tecron: 68-75 • Flexron: 45-55

#### Test Compliance

• MIL- S-901C: Shock Test • MIL- STD-167-1: Vibration Test • MIL-P-24705: QPL 2000°F • IMO A. 754 (18): A. III & A. IV • ASTM E-814 and UL 1479: Test method for through stop fire penetrations. **APPROVALS** • Underwriters Laboratories, inc • U.S.Navy • U.S. Coast Guard American Bureau of Shipping (ABS) • Det Norske Veritas (DNV) • Lloyds Register



### Nelson Fire Brick

Nelson Fire Brick is a soft, pliable, intumescent material that is ideal for applications where the firestop application may be required to be re-penetrated. Upon the event of a fire, the brick material expands within the opening, forming a solid char that prevents through penetration of the fire.

#### Features

• Up to 2-hrs ratings • Easily installed • Non-Shrinking • Non-toxic • Easily Re-Penetrable • Excellent shelf life

#### Physical Order

• Color-Charcoal Gray • Weight-1.48 lbs • Dimensions-2"x5"x8" • Intumescent activation temp>300°F Asbestos Filler-None.

#### Test Compliance

• ASTM E-814 and UL 1479, test method fr through stop fire penetrations.



### Nelson CPS™ Composite Sheet

CPS™ is a rigid, elastomeric, fire resistant panel used to seal penetrations and maintain the rating of fire rated floors or walks. It consists of rigid panel, primarily composed of a 5/16" thick elastomeric sheet, bonded to a 28 gauge galvanized steel sheet on one side. The composite sheet is reinforced with hexagonal shaped steel wire mesh and bonded with 003" aluminium foil on the back side.

#### Features

• Up to 2-hr ratings • Unlimited shelf life • Easy to install • Highly intumescent • Easily Fabricated • Self supporting panels

#### Physical Order

• Asbestos Filer-None • Solvents-None • Hazardous Ingredients-None • Intumescent Expansion Activation Temp-Initial>250°F • VOC Content-Negligible • Volume Increase-4 to 10 times • Material Thickness-(0.28" to 0.36")

#### Test Compliance

• ASTM E-814 and UL 1479, test method fr through stop fire penetrations.



**Virgo Specialties Private Limited**

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