



Passive Fire Protection Systems

GST : 21GNLPS7947Q1ZU



Company Profile

About Us :

We are a service and solutions provider of passive fire protection systems committed to save property and lives from the danger of fire. Our MAIN PURPOSE is to provide additional time in a fire situation to exit a building and extra time for fire fighters to do their job before the fire spreads. We provide accepted quality of passive fire products. The Scope of Services we provide in Engineering Projects is full-fledged and extremely Value added realistic solutions in both technically and economically. Our engineers are experts in the field of passive fire systems and are trained to provide solutions on any passive- fire requirement.

WHY WE SHOULD USE PASSIVE FIRE PROTECTION ?

- Buy time for the occupants to Escape.
- Buy time for the fire fighting services to safely enter and you to escape.
- Give added benefits such as thermal and acoustic insulation.
- Minimise rebuild costs, and facilitate quick business recovery and continuity.

WHAT MAKES US YOUR BEST CHOICE :

Quality Assurance - Quality is the main priority we give to our customers. Products we deal are all certified according to the respective laws of product quality.

Life and Property Safety with long lasting solutions - We are committed to maintaining and upholding international safety and quality practices according to the respective the product we deal on installation of systems.

Trained Expert - As life Safety Is first. We have highly technical experienced expertise in passive fire systems and solutions on which you can trust on solution we provide.

Things you should know - Fire Rating is assigned to a SYSTEM rather than a PRODUCT / ELEMENT individually. It is defined in Minutes- 30, 60,120min etc.

OUR VISION & MISSION :

our mission is to deliver fire safety solutions ensuring life and property safety without affecting the continuity of work. Saving life and customer satisfaction is our mission and vision of company.

CORE VALUES :

- Honesty and Integrity.
- Gives incident-free outcomes.
- Build long-term relationships founded on trust, respect and responsibilities.
- Quality and Superior Customer Service

OUR GOAL :

- Giving additional time to exit from fire situation
- Life Safety
- Property Protection
- Continuity of Operations

Fire Penetration Sealing Systems

FR Mortar

Product description- Mortar is a dry gypsum/concrete powder consisting of inorganic components. When mixed with water, the compounds form a highly thermally insulating fire sealing compound to prevent the spread of fire and smoke through openings in fire rated walls and floors. It will act as a heat sink, absorbing heat from penetrants. Life expectancy of over 25 years. Free of halogens, asbestos, fibres and silica and is non toxic. Not for load bearing .

Application areas -

Suitable for fire protecting blank openings in floors with penetrants like cable tray, pipe and duct.



FR Board

FR Board consists of a high-density rock wool board which is coated with fire retardant paint on one or two sides, depending on where the fire sealing is to be carried out. The rock wool is to keep the temperature increase down, whereas the fire retardant paint is designed to prevent fire and hot gases from leaking through the mineral wool board. It is a quick way of sealing big and/or complicated fire seals when the fitter has some experience with the system. The fire board has been tested on all types of through-penetrations in all types of constructions.

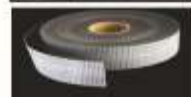
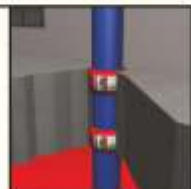
Application areas - Suitable for fire protection in wall penetration.



FR Pipe Wrap

Pipe Wrap comprises of a plastic wrapped graphite based swelling material that reacts with heat that fills the cavities resulting from the melting plastic through-penetration in case of a fire. The Pipe Wrap is cast into the wall or the floor by fixing it round the through-penetration with the attached sticker. It may also be fitted in FR Board.

Application areas - It may be used both for plastic pipes (PVC, PP, PE ABS and Alupex), bundles of plastic pipes with or without cables as well as cable bundles.



FR Collar

FR Collar consists of a split white coated, circular steel casing designed to fit around plastic pipes. The collars have a secure and simple locking device having intumescent technology. The steel frame contains a graphite based swelling material that reacts to heat and fills the opening from the melting plastic through-penetration in case of a fire. Available in different sizes.

Applications - It may be fitted on the outside of a wall or a floor having plastic pipes.



Fire Penetration Sealing Systems

FR Putty

FR Putty has been designed to maintain the fire resistance of gypsum/ concrete walls where these are breached by electrical switches and sockets, wall boxes and small openings. The putty is hand workable, reusable and re-serviceable due to its non-setting properties. It has additional fire retardant additives. They form a robust fire resistant char that prevents burn through at the location of electrical or pipe penetrations. These pads are available in different sizes for different applications. It is also an ideal product for air-sealing around penetration openings.

Application- Fire Protection in electrical switches, sockets, wall boxes and small passage of smoke, flame and sound.



FR Service Transit

FR Service Transit has been designed to maintain the fire resistance of walls and floors when these are breached by continuous cables and plastic pipes. Ideal for installations where it is likely that services will be inserted or replaced later on. It is made up of a circular high temperature plastic tube containing a graphite based intumescent lining material which expands upon heating to seal spaces or voids around cables and pipes, thus preventing the passage of flames, smoke and gases.

Application- Ideal for installations in tight spaces where it will be difficult to install a normal fire seal at a later stage or reinserting cable through it.



FR Graphite Plate

Protecta FR Graphite Plate is a preformed self-adhesive intumescent plate, used to reinstate the fire resistance performance of flexible wall constructions when punctured with plastic wall boxes. The graphite plate immediately reacts to fire through the heat and automatically expands and fills up the box. It also prevents the passage of smoke and fire through the electrical conduits between socket boxes.

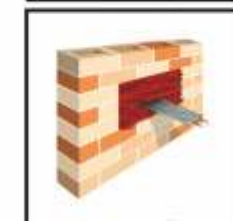
Application- Fire Protection in cables into socket boxes, Cable junction box.



FR Pillow Bag

Fire-Retardant pillow Bags are extremely effective, and a low cost fire retarding product that takes just seconds to install, and provides hours of fire resistance. Fire-Retardant Bags are used to fill open areas around conduits, pipes, and cables to prevent the transmission of fire, heat, and smoke. They are very much flexible and stuffed into many openings.

Application areas-They are ideal for open floor areas or where temporary wall and floor repairs are under construction.



Fire Sealants

FR Acrylic

It is high expansion intumescent sealant, this is used for sealing gaps around all types of joints, penetration seals, voids and irregular holes in fire rated structures. gluing and fast repairs in finishing works in construction, The sealant forms a char, preventing the passage of fire and smoke, when exposed to the heat of a fire. it used around metallic pipes, cable trays, cable bunches, small, medium and large cables.

Application- Fire protection for linear gaps in civil & fire rated dry wall partions, cable penetration and small gaps.



FR Graphite

It is a high pressure exerting, graphite based, intumescent sealant that expands when exposed to fire to protect penetrations, including pipes and cables. It also maintains the integrity and insulation performance of the seal. The sealant is smoke, gas and air tight. Under fire conditions the product swells and exerts pressure to the surrounding substrates leading to closure of the penetration.

Application- intended for use in all types of pipes and cable service penetration through walls and floors where fire integrity and insulation needs to be preserved.



FR PU-Faom

Polyurethane Foam is a fire classified construction foam that has particularly good acoustic properties. The foam satisfies the fire resistance requirement but is not intumescent and One of the best commercially available choices of insulation material is. It has good thermal insulating properties They are used for sealing expansion joints in civil engineering. They are flexible and can be painted. It is good for irregular gap, sealant to help prevent the spread of fire, smoke and noxious gas and firestop joints and through penetrations through floor slabs, walls and other fire-rated building partitions and assemblies. This firestop sealant .

Application – General gap filling for irregular openings, difficult to work areas & door installation.



FR Joint Sealant

Fire Rated Silicone Sealant is a halogen free product. It is suitable for the sealing of construction. Silicone sealant is a powerful, flexible product that can be used in many different applications. It can withstand high temperatures, lifetime waterproof. high performance sealant capable of meeting the joint movement requirements in a fire rated joint elastomeric, single-component, neutral-cure silicone sealant. This ready-to-use sealant cures upon exposure to atmospheric humidity and forms a flexible firestop seal for construction joints and through penetrations in fire-rated assemblies.

Application- Deal for sealing, filling and insulating gaps and cracks Gaps Cavities around electrical fittings and Mechanical gaps, gaps in gypsum board where a weather-tight seal is needed.



Fire Retardant Coating Compound

Fire Blanket

Fire blanket is a specially treated fiber fabric which is very soft, smooth and does not irritate skin. Which uses fire resistance ribbon. So the crafts ensure the whole fire resistance. beginning of a fire accident, it can be used to insulate the fire from oxygen, thus controlling the fire. In an emergency, it is a perfect covering, isolating our body from the heat source during an escape. It can be easily wrapped in any irregular objects. When compared with the other kinds of fire extinguishers, fire blanket has the following advantages like it has no expiry date, It is environmentally friendly. It is a good insulator and high-temperature resistance. The fire blanket is easy to carry & store and simple to use. It is the best choice for an emergency,

Application- fire protection, and fire fighting. Ideal for use in kitchen, hotel, garage, gas station, laboratory etc.



FR Fabric Coating

Fire singly is greatest hazard that causes severe damage to life and property. Fabrics has been one of the active sources to catch and spread fire and in many places fire has started through furnishing fabrics specially curtains. Similarly for workers in fire prone factories with big furnaces etc. fire retardant clothes are a must. That is why fire retardancy treatment for furnishing fabrics is fast becoming mandatory across the globe damage fire can cause. A chemical formulation that converts any kind of fabric into flame proof / fire proof. Upon exposure of heat and flame, a char form on the surface of fabric. Once treated, fabric does not catch fire for some time and when it does, the flame extinguishes within itself and 'char length' does not spread for more eliminating risk of fire spreading through these mediums. The treatment does not affect, in any way, the feel/breath/ colour etc. of the treated material. Product differs from type of fabric like cotton, polyester, nylon etc.

Application- Events, Pandals, Hospital, Hotels, institute, Movie theater and labs curtains and fabrics.



FR Wood Coating

From ancient times, man has associated wood with fire. He has become imbued with a wood-fire consciousness acquired by centuries of personal experience. It is, therefore, not surprising that mention of "fireproofing" Flame-retardant systems involve wood impregnation and intumescent coating application. Several techniques have been studied for impregnations (chemicals in molecular dispersions and colloidal solutions) and for surface treatments (flame-retardant coatings), both of them with cutting-edge technologies (e.g., nanocomposites). Fire Retardant Treated (FRT) wood has an unmatched record of protection against flame spread, smoke development, fire retardant spray for wood, used primarily on unfinished lumber, pine, cedar, redwood, and other OSB species. Non-toxic and environmentally safe. Passes class A flame retardant testing, low VOC

Application- Base surface of wood, plywood, timbers, kitchen furnishes, shops furniture.



Fire Doors

Fire Doors

Wooden, Steel and Glazed Fire & Smoke Check Doors have established acceptance in Spread throughout the country as the same meet with the statutory requirements i.e. all the three criterion of Stability, Integrity and Thermal Insulation as per IS/BS/UL standards. The Use of fire and smoke check doors is required as per current fire laws and National Building Code Part IV.

The doors are fully fabricated in the factory in ready to instal condition. The provisions can be made during manufacturing to fix any hardware as per requirements. Available in standard sizes as well as customised sizes. Sleek, flush and sturdy design with Vision panel. Available in color shades as per requirements. It is asbestos free. Prefabricated ready to install at site. Ready to add hardware like HMPS, panic bar as per customer requirement. Made from galvanized steel sheets. Wood fire door available .

Application-High-rise, buildings, Commercial Buildings, Cinema Halls, Auditoriums, and various Industries including Refineries.



Fire Hydrant System

Re Hydrant is a pipe that allocates water from a main location to the required place in order to control and reduce fire. It consist of a system of pipe work connected directly to the water supply main to provide water to every hydrant outlet and is intended to provide water to fight the fire. Fire Hydrant protection system is always kept pressurized with water.

The fire pump station comprises of jockey pump, electrical driven pump and stand-By diesel driven. To keep the Fire Fighting Pumps BATTLE READY in case of Fire Breakout, Control Panel incorporates Hydrant along with Automatic Control for Diesel Engine Driven Pump



Sprinkler System

Fire sprinklers work because high heat triggers the sprinkler system. When a blaze ignites, This hot air rises and spreads along the ceiling. When the liquid expands inside it, sprinklers usually made to open automatically at a certain temperature.

A sprinkler heads function individually. This allows water damage to be confined to the small area where the fire started. Plus, since fire sprinklers douse fires with about less water than a fire hose, their quick action is actually less damaging to your property.



Other Products

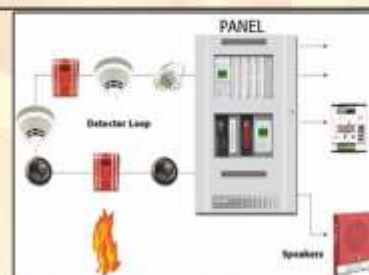
Fire Detection & Alarm System

It is composed of alarm initiating devices (smoke detectors and heat sensors), alarm notification appliances (sirens or devices that produce loud noises), fire control units (sprinkler systems or fire extinguisher systems), power supplies and wirings. These are the optical detector and the ionization detector. The optical smoke detector detects smoke by using light sensors (infrared LED). When smoke particles pass through the chamber of the optical detector, it scatters light that triggers the alarm. In the ionization detector, if the smoke particle enters the chamber of the ionization detector it will reduce air ionization inside the chamber of the ionization detector and triggers the alarm.

Fire Alarm Control Panel (FACP) This is the center of the fire alarm system, Addressable panel provides exact location of fire, An addressable fire alarm system is made up of a series of fire detectors and devices that are connected back to a central control panel. With addressable systems, each device has an address or location, enabling the exact detector that was triggered to be quickly identified. This makes addressable alarm systems ideal for large buildings, particularly commercial premises spread over a wide area.

Have Advantages like-

- Quickly determine the location of a fire.
- Specific actions can be programmed by the user.
- Reduced likelihood and better handling of false alarms.
- More reliability, less likely to lose connection.
- Lower overall cost of wiring.
- Ability to monitor integrity of the system, with detector health checks.



Annual Maintenance Contract

With the help of our experienced professionals, we also undertake Annual Maintenance Contracts. The AMC ensures longevity of Components like fire extinguisher, standpipe and fire hose system etc. trouble-free operations and lower downtime. Further, through Annual Maintenance Contracts (AMC), we are responsible for maintaining final quality of treated effluent well subject to no change in design. Furthermore, the services offered by us are carried out by our well-trained and highly skilled technicians at the clients' sites. After each inspection, our fire protection technicians describe any needs to you. And as a full-service fire protection company, we will remedy any deficiencies.



Regd. Office : Cuttack- 753001, Odisha
Ph: 8093969865 E- mail: achyuta.fs@gmail.com