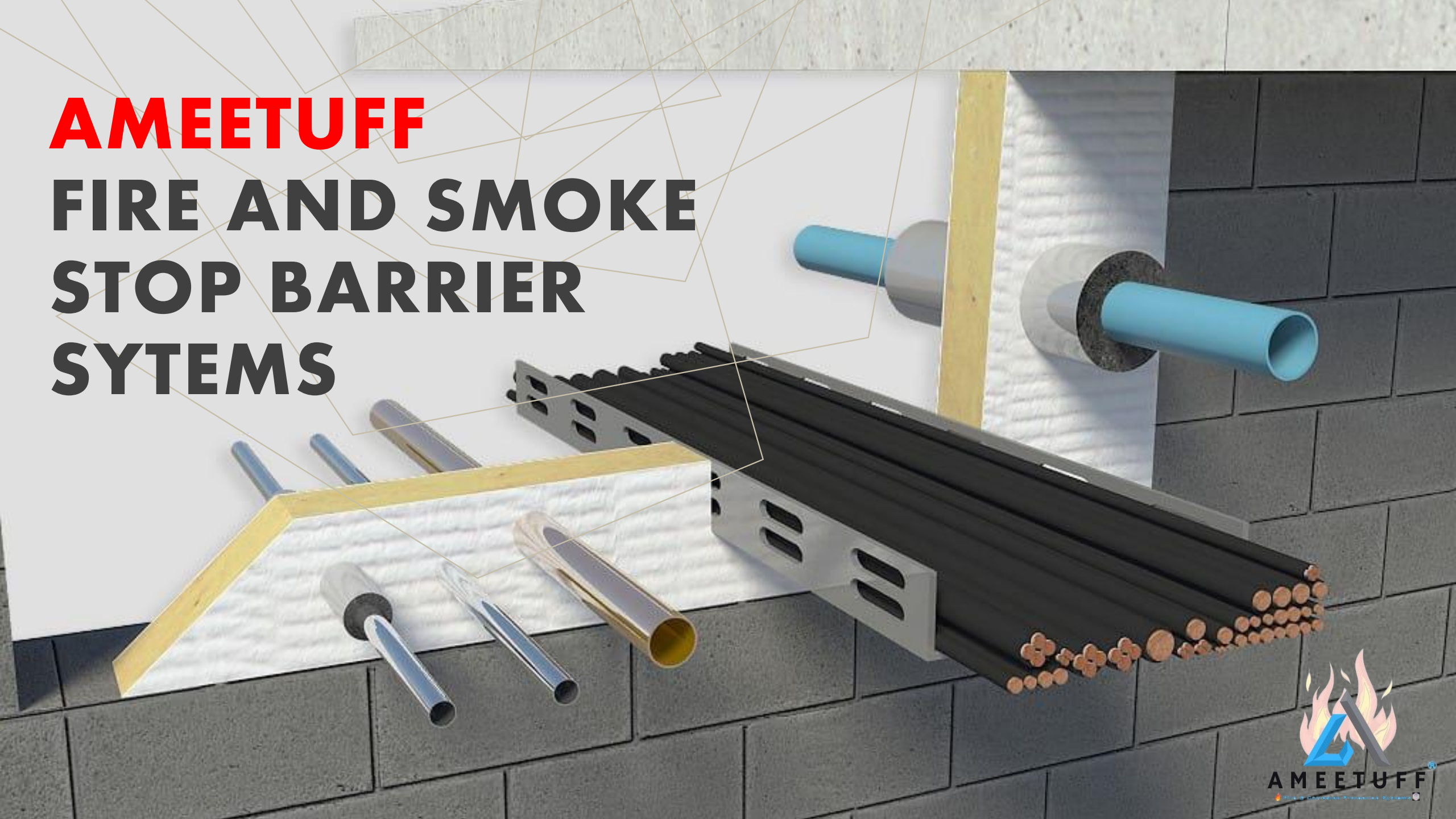


AMEETUFF **FIRE AND SMOKE** **STOP BARRIER** **SYSTEMS**



ABOUT AMEETUFF

Ameetuff is a trusted leader in fire safety solutions, providing high-performance fire and corrosion resistant products for the last 35 years designed to prevent fire spread and protect lives and property. With years of expertise, Ameetuff serves industries ranging from construction to data centers, delivering innovative, easy-to-install fire protection systems. Our commitment to quality and safety has made Ameetuff a go-to choice for clients seeking reliable fire and corrosion prevention solutions that meet the toughest safety standards.



FIRE STOP BARRIER SYSTEM

What is a Fire Stop Barrier System?

- A fire stop barrier system is a passive fire protection method designed to **block the spread of fire, smoke, and toxic gases** through gaps in walls, floors, and other building structures.
- It uses **fire-resistant materials** to seal openings around cables, ducts, pipes, and other penetrations in buildings.
- The system ensures **compartmentalization**, creating fire-resistant sections within a building to limit fire and smoke movement.



Why is it Necessary?

- **Prevent Fire Spread:** Ensures that fires are confined to one area, preventing them from spreading rapidly through a building.
- **Protect Critical Infrastructure:** Safeguards electrical, communication, and HVAC systems by sealing gaps and preventing fire damage.
- **Comply with Safety Regulations:** Meets international fire safety standards and building codes, ensuring legal compliance and safety assurance.
- **Life Safety:** Reduces the risk of injury or death by giving occupants more time to evacuate safely in case of fire.
- **Minimize Property Damage:** Limits the destruction of property and reduces the need for costly repairs after a fire event.



TYPES OF FIRE STOP BARRIER SYSTEMS

ELECTRICAL CABLE FIRE STOP BARRIER SYSTEM

The **Electrical Cable Fire Stop Barrier System** prevents fire from spreading through gaps around electrical cables by using fire-resistant materials. It protects critical infrastructure, ensures fire safety, and maintains compartmentalization, reducing the risk of fire damage and ensuring compliance with safety regulations, while minimizing damage and risk during fire incidents.



DUCT FIRE STOP BARRIER SYSTEM

A duct fire-stop barrier is a fire-rated system that coats the duct and seals all joints and penetrations so that fire, smoke, and hot gases cannot travel through the HVAC duct during a fire, ensuring the duct remains stable and maintains compartmentation as per BS 476.



COMMUNICATION DATA WIRE FIRE STOP BARRIER SYSTEM

The **Communication Data Wire Fire Stop Barrier System** is designed to prevent fire, smoke, and gases from spreading through gaps where communication and data cables pass. It protects critical data infrastructure, ensures fire safety in data centers and offices, and complies with fire safety regulations, minimizing downtime and damage in case of fire.

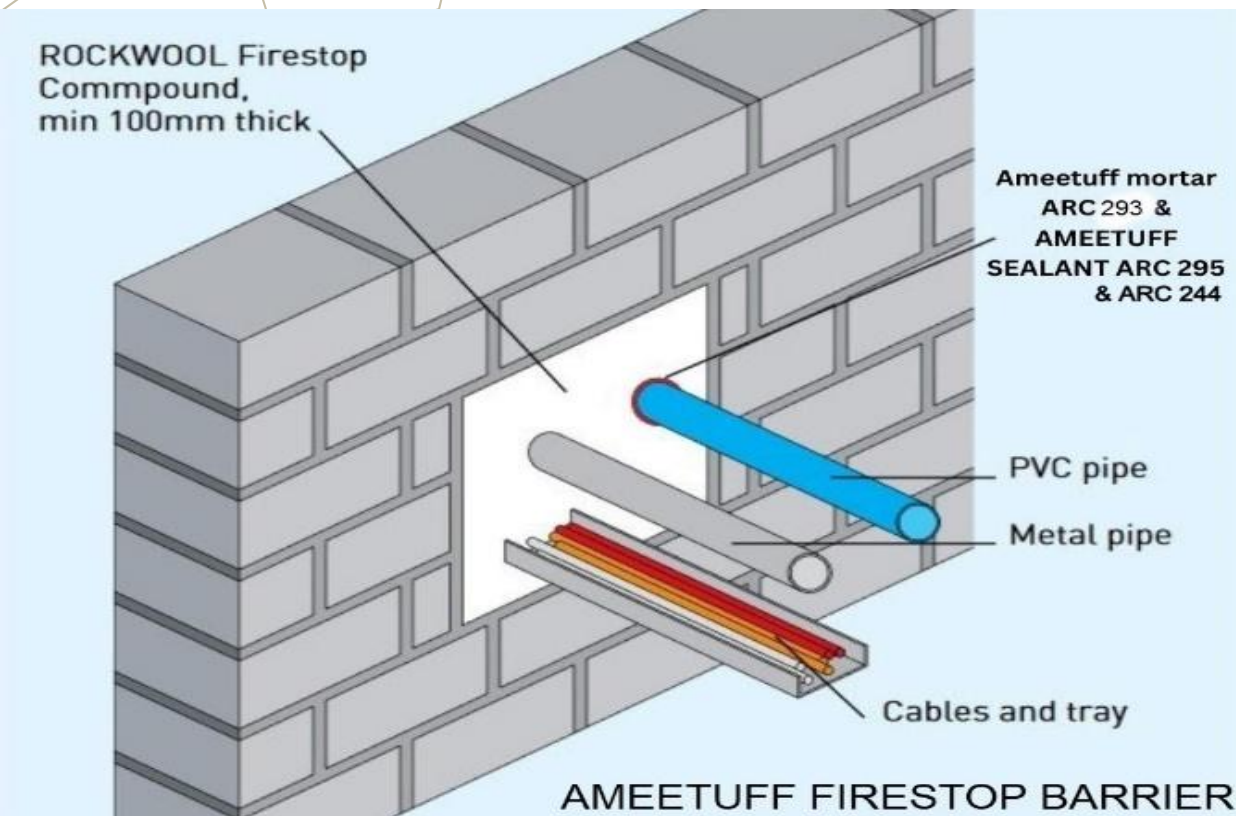


HYDRANT PIPE FIRE STOP BARRIER SYSTEM

The **Hydrant Pipe Fire Stop Barrier System** is designed to seal gaps around hydrant pipes where they penetrate walls and floors. This system prevents fire, smoke, and gases from spreading through these openings, ensuring the integrity of fire-rated barriers, enhancing fire safety, and maintaining compliance with safety regulations. It helps protect essential fire-fighting infrastructure and limits fire damage.



PRODUCTS USED TO MAKE A FIRE STOP BARRIER SYSTEM



FIRE RESISTANT MOTAR ARC-293

The system integrates **50 mm of fire resistant mortar** to seal penetrations around pipes, cables, and ducts. This high-performance mortar forms a solid, fire-resistant barrier that can withstand extreme temperatures, effectively blocking the spread of fire, smoke, and gases. It also contributes to maintaining the structural integrity of fire-rated walls and floors.

DUCT SEALANT ARC-244

The fire Resistant sealant is used to close smaller gaps and cracks around various penetrations, such as pipes, ducts, and cables. This flexible sealant expands when exposed to heat, creating a fire-resistant seal that blocks fire, smoke, and toxic gases from spreading. It ensures the integrity of fire-rated barriers while allowing for slight movement or vibrations in the building.

INSULATION WOOL

50 mm layer of insulation wool is included in the system to provide both thermal insulation and fire resistance. This product helps contain the fire by slowing heat transfer and preventing the spread of fire across compartments. The insulation ensures that even under intense heat, adjacent areas remain protected, reducing the risk of fire progression.

FIRE RESISTANT CABLE COATING ARC-260A

A fire resistant cable coating is applied to electrical and communication cables, protecting them in case of fire. This coating prevents the cables from igniting easily and slows the burning process, allowing more time for containment. It is particularly essential for maintaining the functionality of critical systems during a fire.

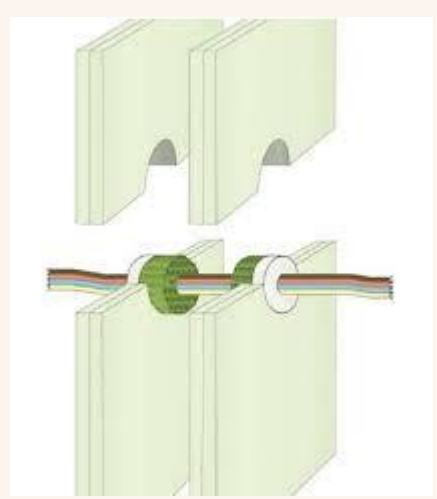
FIRE RESISTANT MOTAR SEALANT ARC-275

Mortar sealant is applied over the fire resistant mortar for an additional layer of protection. It ensures that the mortar remains intact and effective over time, providing a durable and fire-resistant barrier. The mortar sealant also helps maintain the system's fire performance and protects against wear and tear due to environmental factors.

HOW IT WORKS

FIRE RESISTANT MORTAR AND INSULATION WOOL

Fire-resistant mortar is applied around wall or floor openings to form a solid, fire-blocking base. Insulation wool is layered on top of the mortar, adding thermal resistance to reduce heat transfer and keep the fire contained within a compartment.



FIRE RESISTANT CABLE COATING

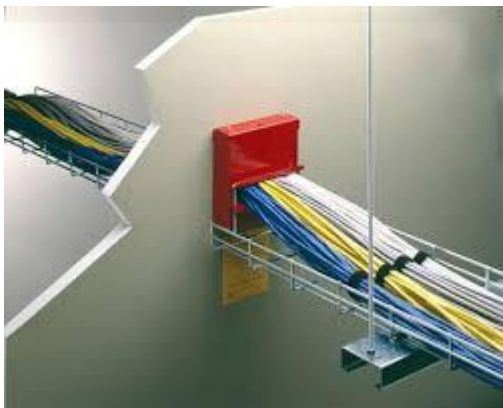
The fire-resistant coating is applied to cables passing through the barrier, preventing them from igniting under high temperatures. This coating preserves the functionality of essential electrical systems during a fire.

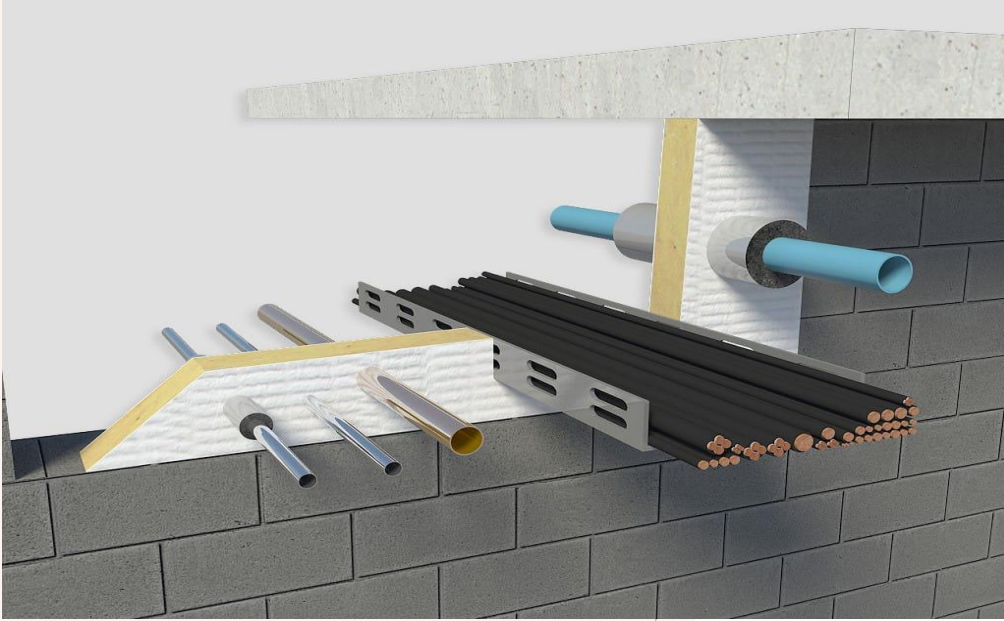
FIRE RESISTANT MORTAR SEALANT

Once the mortar layer is in place, a sealant is applied over it to strengthen its durability and fire resistance. This sealant ensures the mortar remains effective under prolonged heat exposure.

SEALANT

Lastly, intumescent sealant is applied around any gaps or penetrations around cables, ducts, or pipes. In a fire, this sealant expands to fill any remaining openings, effectively stopping the spread of fire, smoke, and toxic gases.





APPLICATION OF FIRE STOP BARRIER SYSTEM

WALL TO WALL

Fire stop systems for electrical cables in wall-to-wall barriers seal penetrations to prevent fire and smoke from spreading between compartments. Using tested materials and proper installation techniques is crucial for compliance with safety standards and maintaining fire-resistance ratings.



FLOOR TO FLOOR

Fire stop systems for electrical cables in floor-to-floor barriers are essential for containing fire and smoke spread through penetrations. The application involves sealing these openings with fire-rated materials to ensure compliance with safety standards and maintain the fire-resistance rating of the floor assembly

STAGES OF APPLICATION OF FIRE STOP BARRIER SYSTEM



PREPARATION

- Measure and assess the penetrations or gaps (e.g., around cables, pipes, or ducts).
- Prepare the surface by cleaning, drilling holes if necessary, and installing support structures like rebar or mesh to hold the fire stop material.
- Ensure the surface is ready for the application of fire-resistant materials by removing dust, debris, or loose particles.

INSTALLATION

- Apply the fire stop materials (such as fire Resistentmortar, insulation wool, or fire sealant).
- Fill the gaps or openings with the appropriate fire stop material in the required thickness.
- Ensure proper layering of fire-resistant materials like mortar or insulation wool.
- Seal smaller gaps with fire Resistentsealant for a complete barrier.

CURING AND INSPECTION

- Allow the fire stop material to cure or harden, typically for 72 hours.
- Inspect the application for any gaps or deficiencies.
- Perform load and impact testing if required to ensure the fire stop barrier system is properly installed and effective.

CLIENTS WHO RELY ON THE AMEETUFF FIRE STOP BARRIER SYSTEM

- **Microsoft Campus**, Hyderabad
- **Taj Hotel**, Varanasi
- **Ahmedabad Police Headquarters**, Gujarat
- **Lodha Group**, Residential High-Rise Apartments
- **Prestige Realty**, Bandra Kurla Complex (BKC), Mumbai
- **Amazon Development Centre**, Jewari Tower, Hyderabad

Walmart 

amazon 

DLFA
BUILDING INDIA

KUVERA

Flipkart 


सेल SAIL

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED


Dabur

JINDAL®

 Microsoft

 Apple

TECHNICAL DATA SHEET- DUCT SEALANT

AMEETUFF®

info@ameetuff.in
ISO 9001:2015
ISO 14001:2015
ARC 244

Ameetuff Fire Retardant Duct Joint Sealant INTRODUCTION

Ameetuff Duct sealant is based of silicon polymer compound and it gives flexible, fire-resistant elastomeric finish is primarily used for fire and temperature insulation to prevent the migration of air into the duct air flow and insulation system via duct joints. Is also recommended for sealing duct joint for metal to metal surfaces and it do gives chemical and corrosion protection to the ducting system.



Physical and chemical properties of Duct sealant

Colour	Off white/black/grey
Flesh point	Not applicable
Specific gravity	1.29
Solubility	Water soluble
Effect on skin	nil
Water resistance	good
Fire resistance when dry	No spread of fire
Drying time	3 to 4 hour
Complete hard dry	48 hour
Water vapor and air transmission	As per ASTM E 96 less than 0.01 PERM



Chemical resistance	good
Salt water resistance	good
Fire retardant properties	good
Chemical nature	Silicon polymer compound
Application	by spatula
Particle size	less than 5 micron
Temp resistance	up to 800-900°C
Storage life	Six month



FOR MORE DETAILS: -

WEBSITE
CONTACT NO.
E-MAIL

WWW.AMEETUFF.IN
9811013830
info@ameetuff.in
ameetuff@yahoo.com

LINKEDIN: -

https://www.linkedin.com/in/ameetuff-technical-paints-ind-5073a7264

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TECHNICAL DATA SHEET- INORGANIC SEALANT MORTAR

AMEETUFF®

ISO 9001:2015
ISO 14001:2015

FDS-146L/S/23-24 (**ARC 275**)

INORGANIC FIRE REISTANT CABLE & DUCT BARRIER SEALANT (Mortar)

Ameetuff fire resistant inorganic cable & duct barrier sealant (mortar) is a calcium aluminate compound, based on polymer technology & thermal insulation with mica base additives, it also contains phosphate and silicon binders, that make compound non-flammable, it has excellent sealing properties with rubber to concrete.

Physical and chemical properties of IFRCBS —

Colour	Red / off white
Density	2.6
Solubility	NA
Effect on skin	NIL
Water resistance	Good
Fire resistance	Good
Chemical resistance	Good
Salt water resistance	Good
Chemical nature	Silicon compound
Application	By spatula
Particle size	less than 50 micron
Storage Life	One year



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For more details: - visit www.ameetuff.in

Contact no. - 9811013830

E-mail - info@ameetuff.in, ameetuff@yahoo.com

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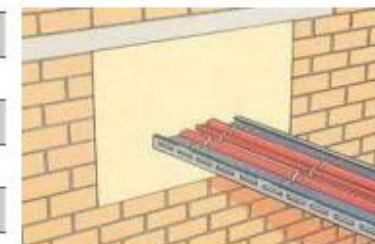
TECHNICAL DATA SHEET – ORGANIC MOTAR

FIRE RESISTANT CABLE BARRIER/DUCT AND CONDUIT SEALANT

Ameetuff fire resistant cable barrier/duct and conduit sealant is a stuffing compound based on elastomeric polymer and silicon compound 65% with rubberized flex able material, also contains mica and silicon binder, that make compound nondrying and flexible even in extreme summer and winter conditions and is highly rust preventive and non-flammable. It has excellent sealing properties metal to metal, rubber to concrete and metal to rubber.

Physical and chemical properties of FRCBS--

Colour	GREY/off white/Red
Density	1.6
Solubility	H.B aromatic solvent
Effect on skin	NIL
Water resistance	Good/ non drying
Fire resistance	Good/ non-flammable
Chemical resistance	Good
Salt water resistance	Good
Chemical nature	Silicon compound
Application	By spatula
Particle size	less than 20 micron
Storage Life	One year



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For more details: - visit www.ameetuff.in

Contact no. - 9811013830

E-mail - info@ameetuff.in, ameetuff@yahoo.com

LINKEDIN: - <https://www.linkedin.com/in/ameetuff-technical-paints-ind-5073a7264>

TECHNICAL DATA SHEET -INTUMESCENT MOTAR COATING

AMEETUFF®

info@ameetuff.in

TDS-149AL/S/23-24

ISO 9001:2015

ISO 14001:2015

ARC 293

FIRE RESISTANT FIBRE INTUMESCENT MORTAR COATING

Ameetuff fire resistant Fibre Intumescent mortar coating is a calcium aluminate Intumescent fibre based compound, based on polymer technology for fire resistant with thermal insulation properties, on concrete, brick wall, gypsum board, other boards surfaces, especially for tunnels and bridges, data center, oil and explosive storage area, refineries Etc, it also added with mica base additives, along with phosphate and silicon binders, that make compound non-flammable, it has excellent sealing properties to concrete.



APPLICATION PROCESS

Single pack - Mix 4:1 water

Spatula / Roller: Apply On rust/dust/oil free surface if required during application add little more water

Physical and chemical properties of IFRCBS

Colour	Grey /off white
Density	2.6
Solubility	Water
Effect on skin	NIL
Water resistance	Good
Fire resistance	Good
Chemical resistance	Good
Salt water resistance	Good
Chemical nature	Silicon compound
Application	By spatula/ Roller

Particle size	less than 500 micron
Storage Life	six months



The fire Resistant Fibre insulation grade tunnel coating provide tough insulating barrier, which will protect surface over which it is formed. Such type of coating is called fire Resistant fibre insulation grade mortar coatings.

Ameetuff fire Resistant Fibre insulation mortar coating is a Rough easy to apply coating, which replaces the traditional labor intensive Cladding and encasement method.

The ability of Ameetuff fire Resistant Fibre insulation grade mortar coating is to retard fire and reduction of heat transfer results from the chemical characteristics Of its constitute.

Ameetuff Fire Resistant Fibre Insulation grade mortar coating, start action at 250° C, when fire start. They are with excellent heat insulating properties. There low conductivity forms a barrier between the fire and Surface substantially decreases the temperature rise of the surface, and effectively protect it.

FOR MORE DETAILS:-

WEBSITE

CONTACT NO.

E-MAIL

WWW.AMEETUFF.IN

9811013830

info@ameetuff.in

ameetuff@yahoo.com

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TECHNICAL DATA SHEET CABLE COATING

AMEETUFF®

FIRE RETARDANT CABLE COATING
ARC-260-A (23-24)
ISO 9001:2015
ISO 14001:2015

PRODUCT NAME: AMEETUFF CABLE FIREGUARD

Type	: Water base , Intumescent
Mix ratio by weight	: Single component
Toxicity	: Non-toxic, Asbestos and lead free
Density	: 1.30 (nominal)
Application	: Conforms as per to IS: 12459
Flame Spread, Ignitability & Combustion	: Complies with as per is IEC 60331, IEC 60332-3, IS:10810 (P-53&61) IS: 691, IS:2459, IS:12458 , IEEE383 , IS:5831, IS:2932 , BS:476/6 & 7
Limiting Oxygen Index	: Above 30%
Application	: Brush / Airless spray
Drying Time	: 30 mins., Hard Dry : 48-72 hrs
Functional Cure Time	: Maximum 7 days
WFT/DFT	: 2.3/1.6mm
Smoke Density Rating	: Should Pass as per ASTM D 2843-1999
Nos. of coats Time	: 1 skin coat + 5-6 coats with in between drying interval 4-6 hr (minimum requirement approx. 3.6 to 4 kg per sq.mt.)
Application	: Horizontal runs: 3m with at intervals of 3m each, Vertical runs: Enter length
Measurement	: For the purpose of payment the installment work shall be measured as under:



- Single cables : IID x length (D is the outer dia of the cable before coating)
- Cable Bundle: IID x length x 1.2 (D is the periphery of the cable bundle and of the cable tray. This is usually measured by measuring the circumference around the bundle. 1.2 is the measurement factor the compensate for daylight surfaces)

AMEETUFF FIRE RETARDANT CABLE (fireguard)

Statistically, root cause of most fire disaster is short circuit. Protection of power cable is of utmost importance to prevent spread of fire, as well as to maintain power supply for maximum possible time, to ensure safe evacuation of people and to let firefighting activity continue effectively.

AREA OF PROTECTION

- Protection for cable: survivability up to 30 to 120 mins. (depend upon coating thickness)
- Protection: B-15 & B-310 rating, IS 162: 1950.
- Protection for substrates from external fire source.
- As an industrial safety for oxygen, acetylene pipelines. Electrical Cables

MERITS

- **Automatic fire-fighting mechanism** – The efficiency of most fire-fighting measures depend of the skill of the human operating it. **Ameetuff Fire Retardant Cable coating Compound** controls fire automatically without relying on human intervention.
- **No smoke propagation** – Smoke emission is the most fundamental parameter with regard to saving lives as smoke is the single largest killer in fire situations. **Ameetuff Fire Retardant Cable coating Compound** does not contribute to smoke propagation.
- **Non-toxic** – Deadly gases can overcome us in seconds. **Ameetuff Fire Retardant Cable coating Compound** does not develop toxic gases upon intumescences as it is halogen free.
- **Compatible with existing installations** – **Ameetuff Fire Retardant Cable coating Compound** Works effectively with the existing cable installations. Existing cables need not be replaced with expensive fire-rate cables.

Circuit Integrity – Remains intact for a period of at least 90-120 minutes. This means that the electrical cables coated with **Ameetuff Fire Retardant Cable coating Compound** are able to carry current for a period of at least 90-120 minutes when exposed to fire. This has tremendous implications for fire-fighting and evacuation of people in fire situations.

PHYSICAL PROPERTIES

Color	: Off white/Grey
Flexibility IS : 101	: Flexible
pH value	: 6 to 8
Flash point	: NIL
Specify Gravity (IS : 101 cup)	: 1.31 – 1.32
Theoretical Coverage	: Minimum 3.2kg±0.10kg/m ² @1.6mm DFT
Solid Content (by % of weight)	: Minimum 64
Water Resistance	: Excellent
Application	: By Brush, Airless spraying
Acid & Alkali Resistance for Short Time Exposure	: Good
Drying time	: Surface dry in 30 mins.
Resistance to Diesel Oil	: Good

IEC – 331 IEC-60331: INSULATION INTEGRITY TEST OF CABLE UNDER FIRE CONDITION

Observation: Integrity unaffected for 90 min. (minimum).

Observation:

Coating Thickness (mm)	Wt of Specimen (gm)	Time of Exposure (sec.)	Length of Unaffected Portion(mm)	Charred Length (mm)	Affected PVC Portion
1.52	650	86	350	125	NIL

IEEE - 383: VERTICAL FLAME TEST FOR CABLE BUNCH

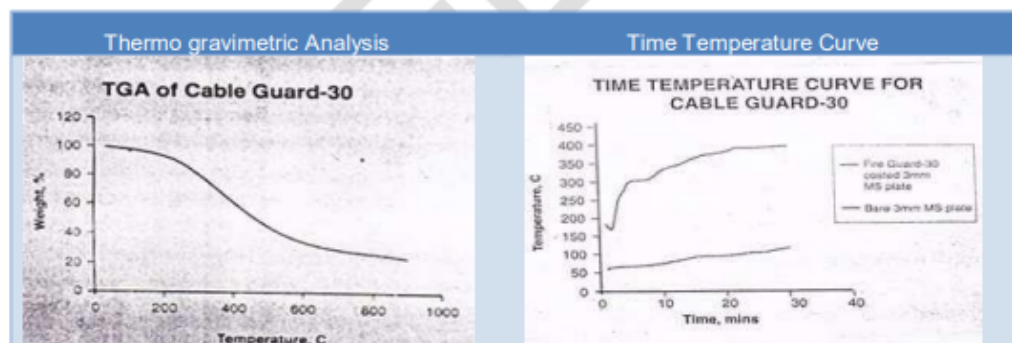
Affected averaged (charred length of different cables noted during IEEE=383 evaluation on cables coated with **Ameetuff Fire Retardant Cable coating Compound**

Affected Averaged (Charred) Length of Different Cables (mm)

C1	C2	C3	C4	C5	C6	C7
NIL	165	270	265	248	40	NIL

Remark: No Flame Propagation noted on Cables Coated with AMEETUFF FIRE RETARDANT CABLE COATING COMPOUND during and after burning of the burlap igniter. However, Intumesces in Coating Observer.(subject to minimum 1.6 mm to 2 mm thickness and material consumption 3.6 kg to 4 kg per sq.mt. in 5 to 6 coats in every 4 to 6 hr interval depend upon weather)

Limiting Oxygen Index (LOI) LOI > above 30%



ECONOMIC FIRE SAFETY

Ameetuff Fire Retardant Cable coating Compound strengthens the Fire Safety of your organization inexpensively. It offers substantial savings because of its compatibility with existing installations, economic application, zero expenditure on employee training and negligible maintenance costs.

POWERFUL FEATURES FOR GREATER SAFETY

- **Intumescent** : When exposed to fire, a chemical mechanism is activated causing the coating to form carbon foam , This reaction then forms a carbonaceous crust which gives thermal insulation and flame protection to the underlying cables thus retarding the propagation of fire.
- **A wholly water based system**: Contains no harmful solvents. Is free from fire hazards during storage and application. Environment friendly.
- **Zero Halogen rated**: Completely free from all halogens.
- **Negligible smoke emission**: A low smoke coating.
- **Easy application**: By brush or by spray.
- **As per International testing Standards**

NOTES:

1. The Coating should be used within the stipulated pot life period.
2. Don't apply when temperature falls below -10°C or rises above 60°C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. To avoid any undue damage to the coating and Spray equipments clean them with water.
4. No Inflammable activity should be carried out when application is under process exterior F.R coating

For more details: -

visit

www.ameetuff.in

Contact no. -

9811013830

E-mail -

info@ameetuff.in, ameetuff@yahoo.com

LINKEDIN: -

<https://www.linkedin.com/in/ameetuff-technical-paints-ind-5073a7264>

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National Test House (NR)
राष्ट्रीय परीक्षण शाला (उ.के.), कमला नेहरू नगर, गाज़ीपुरा, उत्तर प्रदेश - 201002
Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh - 201002



PART A. PARTICULARS OF SAMPLE SUBMITTED

प्रकार 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No:
NTH(NR)/CH(P)/23/2547_1

SRF Number:
NTH(NR)/CH(P)/23/2547

जारी होने की तिथि/Date of issue
28 Mar, 2023

कोड सं/QR Code
: NTH230018758

COMPLETE TEST CERTIFICATE

a) किये जारी किया है/ Issued To	:	AMEETUFF TECHNICAL PAINTS INDUSTRIES
b) पता/Address	:	I-8 DLF INDUSTRIAL ESTATE NO 1 FARIDABAD, Faridabad, Faridabad, Haryana, India - 121003
c) ग्राहक का संदर्भ सं एवं दर्शांक/Customer's Ref. No.	:	ATPI 7019
d) नमूना मुहूर्तब स्थिति/ Sample Sealed Status	:	Not Sealed
e) परीक्षण सामग्री का विवरण/Description of Test Item	:	AMEETUFF FIRE RESISTANT CABLE COATING AND AMEETUFF FIRE STOP CABLE & Duct BARRIER SYSTEM --ATPI 751
e) नमूना वर्णन का विवरण/ Description of Nomenclature	:	AMEETUFF FIRE RESISTANT CABLE COATING AND FIRE STOP CABLE AND DUCT BARRIER SYSTEM TEST AS PER BS 476 PART 20 ,IEC 60331 , IEC 60332 , IEEE 383 UL 1709 UL 1479 ,IS 12458 , IS 12459 ,
f) नमूना का चिह्नपत्रा (यदि हो)/Product Specification(if any)	:	NTH/NR/CHEM/CUST-02 ASTM E 119/BS 476 - As per Customer Requirement
g) नमूना प्राप्त की तिथि / Date of Receipt of the Test Item	:	06 Mar, 2023
h) कार्य संपादन की तिथि/ Date(s)of Performance of Tests	:	From: 16 Mar, 2023 To: 28 Mar, 2023
i) Quantity	:	1.0 1
j) Any other Information / Expiry Date, if any	:	AMEETUFF FIRE RESISTANT CABLE COATING AND FIRE STOP CABLE AND DUCT BARRIER SYSTEM TEST AS PER BS 476 PART 20 ,IEC 60331 , IEC 60332 , IEEE 383 UL 1709 ,UL 1479 ,IS 12458 , IS 12459 ,AMEETUFF FIRE RESISTANT COATING HAS BEEN TESTED AS PER ABOVE STANDRED FOR FIRE RESISTANCE VERTICAL AND HORIZONTAL CABLES AND DUCTS , FOR FIRE PROPOGATION AND STABILITY AND INTEGRITY AND THERMAL INSULATION IN NORMAL AND HYDROCARBON FIRE CONDITIONS AND FIRE STOP SYSTEM CABLE RUN THROURH SYSTEM AS PER BS 476 PART 20 IS 12458 AND IS 12459 UL 1479 SUBJECT TO HOSE STREAM AND VIBRATION REVEALS THAT PANETRATION SEAL SYSTEM (FIRE STOP BARRIER)SYSTEM FOUND WITHSTAND FOR 240 MINUTES , TEST TEMP RANGE 950°C TO 1100°C FOR STABILITY , INTERGRITY AND THERMAL INSULATION
k) Section Code	:	23CHP9C40N
l) Section Report No.	:	23CHP9C40N_1
m) Report Type	:	New
n) Reference Report No.	:	
o) Remarks	:	Test Report forwarded.

Section Code : 23CHP9C40N

Annexure

कोड संख्या Code No.	पृष्ठ Page	पृष्ठों की संख्या No of pages
23CHP9C40N	1 of 1	1

Sample Description: Fire resistant cable coating and fire stop cable and duct barrier system- ATPI 751

S. No.	Test	Result
1	Stability	No significant change in the shape fire stop cable and duct barrier system during fire test. The fire stop cable and duct barrier system did not collapse and stayed for 240 minute of the fire resistance test.
2	Integrity	No crack, hole or opening observed after 240 minute of fire resistance test.
3	Insulation	Maximum average temperature on other side of duct barrier system did not rise above 53 °C during 240 minute of fire resistance test.
4	Fire Resistance Property	Flame does not propagate during 240 minutes of fire test

Note: Test performed on burner flame continuously for 4 hour at 1100 °C

DEVENDRA KUMAR CHAUDHARY CHA...
Devendra Kumar Chaudhary
Lab Sd/- Testing/Calibration
Chemical (Paint, High polymer, Outdoor)
(Authorized Signatory)

ANSHU MALA SHUKLA
Anshu Mala Shukla
Lab Sd/- Testing/Calibration
OIC Testing/Calibration
Chemical (Paint, High polymer, Outdoor)
(Authorized Signatory)



PART A. PARTICULARS OF SAMPLE SUBMITTED

पूरा 'अ' खंडा विनियमों के अनुसार भरना है।

COMPLETE TEST CERTIFICATE

परीक्षण प्रमाणपत्र सं./Test Certificate No:	एस.आर.ए. संख्या/SRF Number:	जारी होने की तिथि/Date of issue	कोड सं./QR Code
NTH(NR)/CH(G)/24/7881_1	NTH(NR)/CH(G)/24/7881	03 Apr, 2024	NTH240050459
a) जारी करने वाला/Issued To	:	AMEETUFF TECHNICAL PAINT INDUSTRIES	
b) पता/Address	:	I-8 FARIDABAD DLF INDUSTRIAL ESTATE NO 1, FARIDABAD, Faridabad, Haryana, India - 121003	
c) ग्राहक का संदर्भ सं. एवं विवरण/ Customer's Ref. No.	:	ATPI /031/24-25	
d) नमूना मुहूर्त स्थिति/Sample Sealed Status	:	Not Sealed	
e) परीक्षण सामग्री का विवरण/Description of Test item	:	AMEETUFF FIRE STOP MORTAR INORGANIC SEALANT -ARC 275 , FOR FIRE wall BARRIER CABLE BARRIER / DUCT ETC AS PER BS 476 PART 20 -22 UL1479	
f) नामपद्धति का विवरण/Description of Nomenclature	:	AMEETUFF FIRE RESISTANT , FIRE STOP MORTAR INORGANIC SEALANT -ARC 275	
g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)	:	NTH/NR/CHEM/CUST-02 ASTM 119/BS 476 (As per Pt: 20 and 24) - As per Customer Requirement	
h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item	:	13 Mar, 2024	
i) कार्य निष्पादन की तिथि/Date(s) of Performance of Tests	:	From: 18 Mar, 2024 To: 02 Apr, 2024	
j) परिमाण/Quantity	:	1.0 one	
k) कोई अन्य सूचना / अतिरिक्त विवरण, यदि हो/ Any other information / Expiry Date, if any	:	AMEETUFF FIRE RESISTANT , FIRE STOP MORTAR INORGANIC SEALANT -ARC 275 , FOR FIRE wall BARRIER CABLE BARRIER / DUCT ETC AS PER BS 476 PART 20 -22 , UL 1479 has been able to with stand for 4 hours as per required standards , no cracks , or deformation observed	
l) अनुभाग कोड/Section Code	:	24CH106BN (Pages:4)	
m) अनुभाग प्रमाणपत्र संख्या/Section Certificate No.	:	24CH106BN_1	
n) प्रमाणपत्र का प्रकार/Certificate Type	:	New	
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:		
p) टिप्पणी/Remarks	:	TEST REPORT FORWARD /परीक्षण रिपोर्ट अग्रिम।	

Signature Not Verified
sureshparwal@nth.gov.in-(SampleCell)

Suresh Parwal
OIC SAMPLE CELL
Signed on: 03 Apr, 2024 17:35 PM

1. This test Certification shall not be reproduced except in full, unless permission for the reproduction of an approved abstract has been obtained from the Director, National Test house (NR), Ghaziabad. 2. This Test Certificate relates only to the sample/items submitted to the laboratory for test.

This is a Computer Generated Report.

कोड सं. Code No.	पृष्ठ Page	पृष्ठों की संख्या No of pages
24CH106BN	1 of 1	1

Sample Description: Ameeutuff Fire Resistant, Fire stop mortar Inorganic sealant arc – 275 – for fire wall barrier/duct etc.

Note: Test performed on Burner Flame continuously for 4 hour at 1100 °C.

Fire Stop Mortar Inorganic Sealant -Arc 275 has been able to with stand for 4 hours as per required standards. No cracks or deformation observed after 240 minute of fire resistance test.

S. No.	Test Parameter	Result
1	Stability	There is no significant change in the shape of Fire stop mortar Inorganic sealant arc during fire test. The Fire stop mortar Inorganic sealant arc has not collapsed and stayed for 240 minute of the fire resistance test.
2	Integrity	No crack, hole or opening observed after 240 minute of fire resistance test.
3	Insulation	Maximum average temperature on other side of Fire stop mortar Inorganic sealant arc is 104.6 °C after 240 minute of fire resistance test.
4	Fire Resistance Properties	Flame does not propagate after removing from flame source.
5	Self Extinguished Properties	Fire self- extinguishes when flame source is removed.
6	Peel off after 240 minute	Coating remains bonded on Fire stop mortar Inorganic sealant arc. No cracking and peel off observed.

Signature Not Verified
anshumala.shukla@nth.gov.in-(OIC Testing/Calibration)

KIRTI PRASAD
Lab Sc. Testing/Calibration
Chemical (General, Standard, Metal, Oil Fuel)
(Authorized Signatory)

ANSHU MALA SHUKLA
OIC Testing/Calibration
Chemical (General, Standard, Metal, Oil Fuel)
(Authorized Signatory)

FIRE RESISTANCE TEST REPORT SCHEDULED-1/3
REFERENCE NO. FSE-CSIR-CBRI/1314

Disclaimer: The contents of this report are the privileged and confidential material of CSIR-Central Building Research Institute, Roorkee. Information contained herein is solely intended for use by the client. Technical data provided in the report pertains to the representative sample of client submitted to the Institute and tested. CSIR-CBRI's name or logo cannot be used for commercial purposes. All procedural, legal, and/or operational matters will be the responsibility of the client using this report. Accepting/rejecting the results partly or fully rests with the concerned agencies.

- 1 **Name of the Testing Laboratory** : Fire Safety Engineering
CSIR-Central Building Research Institute, Roorkee-247667, Uttarakhand, India
- 2 **Name of the Sponsorer** : M/s Ameetuff Technical Paints Industries,
I-8 DLF Industrial Estate No-1,
Faridabad, Haryana-121 003
- 3 **Sample Manufacturer** : M/s Ameetuff Technical Paints Industries,
I-8 DLF Industrial Estate No-1,
Faridabad, Haryana-121 003
- 4 **Manufacturer Consent for Fire Test of Sample** : Yes
- 5 **Sample Fire Tested for the Project** : Not Applicable
- 6 **Type of Test Sample** : Firestop Barrier
- 7 **Surface of Test Sample** : Coated
- 8 **Symmetry of Sample** : Asymmetrical
- 9 **Details of Sample** : Ameetuff Multiple Fire Penetration System
- 10 **Dimension of Sample** : 1000 mm x 1000 mm x 200 mm R.C.C. slab having filled opening of 500 mm x 500 mm x 155 mm with 50 mm thick ceramic wool (Density- 120 Kg/m³) followed by 50 mm thick mineral wool slab (Density- 144 Kg/m³) and 40 mm thick fire resistance mortar ARC 275. The upper layer was sealed with sealant ARC-244 and bottom side sealed with 15 mm thick ammeetuff ceramic gasket ARC 317
- 11 **Sample in-fill materials** : Exposed face encased with 50 mm thick ceramic wool (Density- 120 Kg/m³) followed by 50 mm thick mineral wool slab (Density- 144 Kg/m³) and 40 mm thick fire resistance mortar ARC 275. The upper layer was sealed with sealant ARC-244 and bottom side sealed with 15 mm thick ammeetuff ceramic gasket ARC 317,

Naumen
30/05/25



अग्नि अनुसंधान प्रयोगशाला
FIRE RESEARCH LABORATORY
सी.एस.आई.आर - केन्द्रीय भवन अनुसंधान संस्थान
CSIR - Central Building Research Institute

रूड़की - 247 667 (उत्तराखण्ड) भारत / Roorkee - 247 667 (U.K.) INDIA



अग्नि अनुसंधान प्रयोगशाला, सी.एस.आई.आर, केन्द्रीय भवन अनुसंधान संस्थान, रूड़की, उत्तराखण्ड, भारत

- e) **Hose Stream** : Hose stream test was carried out for 04 sec.
- f) **Under Load** : Not Applicable
- 36 **Under load/Without load** : Not Applicable
- 37 **Fire Test Witnesses** : Mr Ashok Sibbal
- 38 **Observations During Fire Resistance Test** : Maximum temperature measured on the unexposed face of cable was 146°C (TC 3) at 120 minutes of standard fire exposure.
: No flaming or any gap, voids were observed on unexposed face of sample during 120 minutes of standard fire exposure.
- 39 **Observations After Hose stream Test** : Ameetuff multiple fire penetration system has not developed any opening that would permit a projection of water from the stream beyond the unexposed face.
- 40 **Results of Fire Resistance Test** : Sample withstand standard fire exposure for 120 minutes with respect to thermal insulations (I), integrity (E) and stability (R) followed by hose stream test.
- 41 **Fire Resistance Rating of the Tested Sample** : Sample meets Ameetuff multiple Fire penetration system fire resistance rating criteria of 120 minutes (One hundred twenty minutes Only) with respect thermal insulation (I), integrity (E) and stability (R) followed by hose stream test.
- 42 **Test Report Issue Date** : May 30, 2025
- 43 **Test Report Issued To** : M/s Ameetuff Technical Paints Industries,
I-8 DLF Industrial Estate No-1,
Faridabad, Haryana-121 003
- 44 **Validity Period of Fire Test Report** : Five years period from the date of fire resistance test of the sample.

Report Prepared by
Bhawna
 (Bhawna)

Report Approved Authority
Naumen
 (Dr. Nawal Kishor Banjara)

डॉ. नवल किशोर बंजारा/Dr. Nawal Kishor Banjara
 प्रधान वैज्ञानिक / Principal Scientist
 अग्नि अनुसंधान प्रयोगशाला, केन्द्रीय भवन अनुसंधान संस्थान, रूड़की, उत्तराखण्ड, भारत
 Fire Research Laboratory, Central Building Research Institute
 Roorkee - 247667 (U.K.)



अग्नि अनुसंधान प्रयोगशाला
FIRE RESEARCH LABORATORY
सी.एस.आई.आर - केन्द्रीय भवन अनुसंधान संस्थान
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अग्नि अनुसंधान प्रयोगशाला, सी.एस.आई.आर, केन्द्रीय भवन अनुसंधान संस्थान, रूड़की, उत्तराखण्ड, भारत

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THANK YOU

Ashok Sibbal

91-981013830

info@ameetuff.com

<https://www.ameetuff.co.in/>