AMEETUFF®

ISO 9001:2015
ISO 14001:2015

TECHNICAL DATA SHEET (TDS)
ARC-375A COMPOSITE SHEET FIRE STOP BARRIER SYSTEM

PRODUCT INTRODUCTION

Ameetuff Composite Sheet Fire Stop Barrier System is a modular passive fire protection assembly designed to seal service penetrations through fire-rated walls and floors. The system uses a combination of intumescent boards, treated insulation wool, fire-resistant sealants (organic and inorganic), and stainless steel composite cover sheets to maintain compartmentation and prevent the passage of fire, smoke, and hot gases.

WHERE IT IS USED

- Wall-to-Wall , Floor-to-Floor, duct joints and opening penetrations
- Cable trays and cable bundles
- GI ducts / HVAC penetrations
- Hydrant pipes , sprinkler and utility pipelines
- Electrical shafts, service risers
- Data centres, basements, plant rooms, tunnels, utility corridors

WHY IT IS USED

- Maintains fire compartmentation integrity
- Prevents fire, smoke and toxic gas migration
- Allows future service additions with modular system
- Provides mechanical protection using composite SS sheets

• Suitable for mixed penetrations (cables + pipes + ducts)

• Clean, inspectable and maintainable fire stop system

CERTIFICATIONS

• Tested and approved by NABL accredited laboratories

• Fire resistance tested as per BS 476 Part 20 , UL1479 , ISO 834 & IS 12458

• Designed as per national fire compartmentation requirements

SYSTEM COMPONENTS & USES

• Intumescent Fire Stop Boards – Forms primary fire barrier, expands under heat to seal gaps

• Treated Fire Stop Insulation Wool – Thermal insulation and void filling around services

• Organic Red Fire Stop Sealant ARC-276 – Flexible smoke and fire sealing for exposed edges and joints

• Inorganic Fire-Resistant Sealant ARC-275 – Rigid high-temperature sealing for sheet-to-wall junctions

• Stainless Steel Composite Sheets – Mechanical protection and system encapsulation

• Ameetuff Fire Stop Identification Label – Traceability and compliance marking

APPLICATION PROCESS

Step 1: Surface Preparation

Ensure the opening is clean, dry and sound. Remove dust, loose particles, rust, oil, grease and moisture.

Step 2: Initial Fire-Resistant Sealant Application

Apply Ameetuff approved Fire Resistant Joint Sealant ARC 244

Step 3: Intumescent Board Cutting & Fixing

Measure services accurately. Cut boards precisely as per service profile. Fix tightly inside opening with firm alignment.

Step 4: Secondary Sealant Application

Apply • Organic Red Fire Stop Sealant ARC-276 around periphery of board ensuring no air gaps or voids.

Step 5: Filling with Treated Insulation Wool

Fill remaining gaps around services with treated insulation wool. Seal exposed wool with organic red fire-stop sealant.

Step 6: Inspection Before Cover Plate

Ensure no visible gaps, board tight fitment and continuous sealant coverage.

Step 7: Fixing SS Fire Stop Sheet

Fix stainless steel fire stop cover sheet using mechanical fasteners.

Step 8: Filling Gap Between Sheet & Wall

Fill any residual gap between sheet and wall/floor with treated insulation wool.

Step 9: Inorganic Sealant Application

Apply thin uniform layer of inorganic fire-resistant sealant ARC 275 at sheet-to-wall junction.

Step 10: Final Organic Sealant Finish

Finish all exposed areas neatly using organic red fire-stop sealant for smoke and fire integrity.

Step 11: Cleaning & Identification

Clean area and fix Ameetuff Fire Stop Identification Sticker with system details and date.

Step 12: Repeat same fire stop system on opposite side of wall/floor wherever applicable.

NOTE

All materials used shall be Ameetuff approved fire-stop system components. Application to be done by trained applicators.

CONTACT : 9811013830 or INFO@AMEETUFF.IN

Ameetuff Technical Paints Industries

info@ameetuff.in | www.ameetuff.co.in

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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

INSTRUCTIONS WHILE APPLICATION

- Mix only 1–2 kg of water in the water-based fire-resistant coating for smooth application, and blend it thoroughly before use.
- Apply a thick, uniform coat without over-diluting, as too much water will reduce the fire-resistance performance.

FOR MORE DETAILS: -

WEBSITE WWW.AMEETUFF.IN
CONTACT NO. 9811013830
E-MAIL info@ameetuff.in
ameetuff@yahoo.com

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ARC-378 (25-26)

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Fire Stop Intumescent Board System (ARC-378)

Passive Fire Protection for Service Penetrations & Openings

1. Product Description

AMEETUFF® Fire Stop Intumescent Board is a high-performance passive fire protection system designed to seal service penetrations and openings in fire-rated walls and floors.

The board expands (intumesces) when exposed to fire, sealing gaps and preventing passage of flame, heat, and smoke.

2. APPLICATION

Used as a fire stop barrier for sealing:

- Electrical cable trays
- Power & control cables
- HVAC duct penetrations
- Plumbing pipes (metal & plastic)
- Mixed service penetrations
- Wall & floor openings
- Suitable for concrete, masonry, gypsum board, and fire-rated partitions

3. FIRE RESISTANCE PERFORMANCE

The fire rating is dependent on board thickness and system configuration:

Board Thickness	Typical Fire Rating
5 mm	Up to 30 minutes
10 mm	Up to 60 minutes
15–20 mm	Up to 90 minutes
25–30 mm	Up to 120 minutes
40–50 mm	Up to 180–240 minutes

Subject to system design and testing as per applicable IS / BS / ASTM standards.

4.STANDARD BOARD SIZES

- 300 × 600 mm
- 450 × 900 mm
- 600 × 1000 mm

- Custom sizes available on request.

5.SYSTEM THICKNESS RANGES

5 mm to 50 mm, selected based on:

- Required fire rating
- Size of opening
- Type of services passing through
- Project fire strategy

6.MATERIAL COMPOSITION

- Inorganic fire-resistant fillers
- Intumescent compounds
- Reinforced mineral matrix
- Halogen-free and asbestos-free

7.PHYSICAL PROPERTIES

Property	Description
Colour	Grey / Off-white
Density	Approx. 800–1000 kg/m³
Expansion Factor	Multiplies thickness when exposed to fire
Smoke Generation	Very low
Toxicity	Non-toxic, halogen-free
Water Resistance	Moisture resistant (internal use)

8. INSTALLATION METHOD

- Measure opening accurately.
- Cut board to exact opening size using hand saw or power tools.

➢ **Fix board tightly into opening by:**

- Mechanical fixing / framing, or
- Fire-rated sealant / adhesive (AMEETUFF approved).
- Seal all edges & joints with AMEETUFF Fire Stop Sealant.
- Ensure no gaps or voids remain.

9. COMPATIBLE ACCESSORIES

- AMEETUFF® Fire Stop Sealant
- Fire-rated mineral wool (where required)
- Steel framing / angle supports
- Fire-rated fasteners

10.SERVICE CONDITIONS

- Internal application
- Operating temperature: –10°C to +60°C
- Suitable for humid indoor environments

11.ADVANTAGES

- High fire resistance in thin sections
- Easy cutting and installation on site
- No special tools required
- Clean, dry installation (no curing time)
- Suitable for retrofitting and new construction

Long-term durability

12.STANDARDS & COMPLIANCE

- **Designed and tested in accordance with applicable standards such as:**
- IS / BS / ASTM fire resistance standards
- NBC India – Passive Fire Protection requirements
- NBC India – Passive Fire Protection requirements

  (Test reports available on request)

13. STORAGE & HANDLING

- Store in dry, covered area
- Stack flat to avoid bending
- Shelf life: 24 months when stored properly

14.HEALTH & SAFETY

- Non-hazardous
- Use gloves and dust mask while cutting
- No VOC emission

15.WARRANTY

- AMEETUFF® provides warranty against manufacturing defects when applied as per recommended system.

16.MANUFACTURER

- AMEETUFF® Fire Protection & High-Performance Coating Solutions India

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info@ameetuff.in

ARC-276

TDS-L/S/23-24

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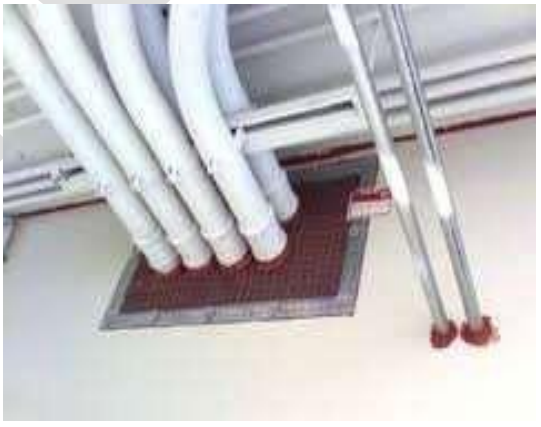
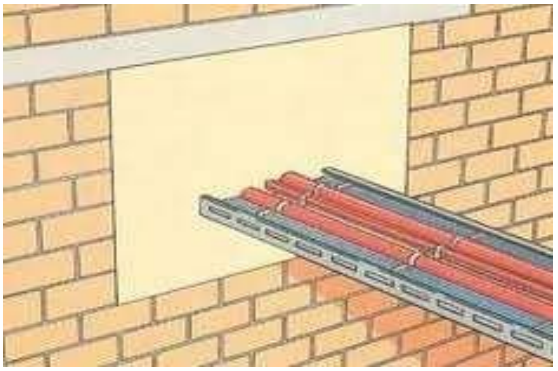
FIRE RESISTANT CABLE BARRIER/DUCT AND CONDUCT SEALENT

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**





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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ARC-377
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FIRE-RESISTANT TREATED MINERAL WOOL – SEMI INTUMESCENT

(FOR FIRE STOP BARRIER & GAP FILLING)**

1. PRODUCT DESCRIPTION

AMEETUFF® Fire-Resistant Treated Mineral Wool is a semi-intumescent, inorganic fire stop material specially treated with fire-resistant and smoke-suppressing compounds. It is designed for gap filling, void sealing, and forming fire stop barriers around service penetrations in walls and floors.
On exposure to fire, the material resists heat transmission and partially expands, helping to seal gaps and restrict fire, heat, and smoke spread.

2. APPLICATION

- Used for passive fire protection in:
- Gaps around cables, cable trays & conduits
- HVAC duct penetrations
- Pipe penetrations (metal & plastic)
- Linear joints and irregular openings
- Fire stop barriers in walls and floors
- Backing material for fire stop sealants & boards
- Suitable for concrete, masonry, blockwork, gypsum board, and fire-rated partitions.

3. FIRE RESISTANCE PERFORMANCE

- Fire resistance depends on density, thickness, gap size, and system configuration.
- Typical fire resistance: Up to 120 / 180 / 240 minutes
- Performance achieved as part of a complete fire stop system
  (Exact rating subject to testing and project approval.)

4. THICKNESS & DENSITY

Thickness selection depends on gap size and required fire rating

Typical thickness range	:	25 mm to 100 mm
Can be layered to suit larger voids		
Density (typical)	:	80 – 150 kg/m³

5. MATERIAL COMPOSITION

- High-quality inorganic mineral fibres
- Semi-intumescent fire-resistant treatment
- Low smoke & low toxicity additives
- Asbestos-free and halogen-free

6. PHYSICAL PROPERTIES

Property	Description
Colour	Natural mineral wool
Form	Slabs / Batts
Combustibility	Non-combustible
Smoke Emission	Very low
Toxicity	Non-toxic
Thermal Stability	Excellent at high temperature
Water Behaviour	Water repellent (treated)

7. INSTALLATION METHOD

- Measure the gap / opening accurately.
- Cut mineral wool slightly oversize for tight friction fit.
- Pack firmly into the gap without compression loss.
- Apply AMEETUFF Fire Stop Sealant or Coating on exposed faces where required.
- Ensure no voids, gaps, or loose fibres remain.

8. SYSTEM COMPATIBILITY

Compatible with:
AMEETUFF® Fire Stop Sealants

Fire Stop Intumescent Boards
Fire-Rated Coatings
Steel sleeves, collars, and frames

9. ADVANTAGES

- Excellent fire resistance performance
- Easy cutting and site handling
- Adapts to irregular openings
- Acts as backing and insulation layer
- Low smoke & non-toxic
- Long service life

10. SERVICE CONDITIONS

Internal applications
Operating temperature: –10°C to +750°C (fibre stability)
Suitable for humid indoor environments

11. STORAGE & HANDLING

Store in dry, covered area
Protect from water before installation
Shelf life: Unlimited when stored properly.

12. HEALTH & SAFETY

Non-hazardous
Use gloves, mask, and eye protection during cutting
Dispose off-cuts as per local regulations

13. STANDARDS & COMPLIANCE

Designed to meet requirements of:
NBC India – Passive Fire Protection
IS / BS / ASTM fire resistance standards
Project-specific fire authority specifications
(Test certificates available on request)

14. WARRANTY

AMEETUFF® warrants the product against manufacturing defects when installed as per recommended system.

15. MANUFACTURER

AMEETUFF®

Fire Protection & High-Performance Coating Solutions

FOR MORE DETAILS: - VISIT WWW.AMEETUFF.IN
CONTACT NO. - 9811013830
E-MAIL - info@ameetuff.in, ameetuff@yahoo.com

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TDS-146L/S/23-24 (ARC 275)

INORGANIC FIRE REISTANT CABLE & DUCT BARRIER SEALENT (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**

For more details: - visit www.ameetuff.in Contact no. - 9811013830
E-mail - info@ameetuff.in, ameetuff@yahoo.com