



## Product Data Sheet Intucompound

### Application

Used to provide a physically strong fire seal in floors where personnel are likely to walk onto the seal face, or in wall situations where services such as air handling ducts require support.

### Description

Firetherm Intucompound is a mixture of inorganic binders, lightweight aggregates and additives. It contains no fibres or asbestos and is halogen free.

It is supplied as a dry powder packed in 20kg bags, which is mixed with water to produce a pourable or trowellable consistency. After mixing, the product expands creating an excellent seal around pipes and cables, and ensures the whole seal bonds securely against surrounding masonry.

Fire Resistance - 1hr 50mm thickness (for non load bearing situations)  
2hrs 75mm thickness (non load bearing)  
4hrs 100mm thickness (load bearing - contact Technical Department for further information)

Colour: Off white - other colours available at extra cost.

Maximum size of floor opening without reinforcement: 900x600mm at 100mm depth.  
Loadings up to 1.5kN / m<sup>2</sup>.

600x600 at 100mm depth 4.5kN / m<sup>2</sup> tested at Warrington after a four hour fire exposure.

For larger openings and loadings over 1.5kN: Contact Firetherm Technical Hotline  
01322 551010

Asbestos, silicon and halogen free: No toxic fumes or smoke released during a fire.

### Fire Ratings

Tested at Warrington Fire Research to BS 476 Part 20. Full 4 hours integrity.

1hr at 50mm thickness.  
2hrs at 75mm thickness.  
4hrs at 100mm thickness.

## **Benefits**

\* High yield rate means that more square metres can be covered with less material than that of some competitors (see chart)

\* 50mm depth for 1hr for smaller non load bearing openings further improves cost-effectiveness.

\* Product remains workable for up to 60 minutes depending on temperature and humidity, then cures quickly to speed up work.

\* Mixes easily with water, no special skills required.

\* Free of halogen, silicon and asbestos fibres

\* Excellent acoustic performance up to 55dBA according to specification.

## **Legislation**

Compartment walls and floors must maintain the appropriate level of fire resistance as set out in Building Regulations 1991 Approved Document 'B'.

Firetherm Intucompound can be poured into floor openings, providing an excellent smoke & fire resistant seal around complicated services while (using the correct specification) allowing structural support for foot traffic.

In wall openings Firetherm Intucompound can provide support to services such as air ducts, and can be pumped into difficult areas if required (Contact Technical Department for pumped applications).

1) Locate and review **Intucompound** Health and Safety Notes before commencing work.

2) Protect area around work with sheeting.

3) Clear any debris or contaminants from opening and from services to be sealed.

4) For bare metal surfaces (such as copper or aluminium), we recommend a barrier tape (masking tape or the like) is applied before filling the hole with Intucompound.

### **5a) Wall Openings**

Fix suitable shuttering onto one face of the opening, ensuring a tight fit.

Mix up **Intucompound** (3parts powder to 1 part water) and trowel up against the shutter building up from the bottom in "lifts" of 50mm.

Proceed in a number of layers allowing lower layers to semi cure for an hour before adding more. Check specification for the correct depth required.

### **5b) Floor Openings - Openings Less Than 900x600mm**

Fix suitable shuttering to the underside of the opening. If flammable materials are used, such as timber or polystyrene, they must be removed after **Intucompound** has cured.

Non flammable materials such as man made mineral fibre, steel or fire rated board may be left in position.

Fix shuttering to allow seal to finish flush with the floor level when poured to the specified depth, usually 50, 75, 100mm. Check specification.

**For larger openings or those needing a specific load bearing capacity contact Firetherm Technical Department.**

6) Before pouring the mortar into a floor opening, fill any small gaps around services with mineral fibre or ceramic wool and mix a batch of **Intucompound** to a trowellable consistency (3parts powder to 1 part water) and place around these areas to ensure a good seal. Allow 30-60mins to semi cure before the next stage.

7) Mix further **Intucompound** to a pourable consistency (2 parts powder to 1 part water) and fill the opening to the required depth in **TWO** application to prevent over-loading the shutter.

8) Remove flammable shuttering after curing (overnight).

9) Fix identification labels or warning notices if the seal is not to be load bearing.

### **Firetherm Intucompound - Fire seals Precautions**

1) Maximum permitted loading on this fire seal is 1.5kN/m<sup>2</sup> (150kg m<sup>2</sup>)

2) Do not place heavy toolboxes or equipment on this seal as the combined weight may exceed the maximum permitted load.

3) Place a spreader board such as 18mm thick ply or similar under ladders or access equipment to prevent excess point loads.

4) The seal surface is not as hard as concrete so do not drag heavy sharp objects across it.

5) Do not allow water or any liquid to stay on the surface of the seal.

6) Avoid dropping heavy tools such as power drills onto the surface.

7) Do not jump onto the seal face from a ladder or off the top of a duct.

**Do:**

- 1) Establish where the seal starts and finishes – mark outline with line paint or coloured chalk.
- 2) Allow only one person at a time onto the seal.
- 3) Leave tool boxes and heavy equipment on the concrete floor.
- 4) Notify anyone working below.
- 5) Do not work alone.

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