



FirePro® High Strength Compound

High strength compound for reinstating the fire performance of floor and wall constructions

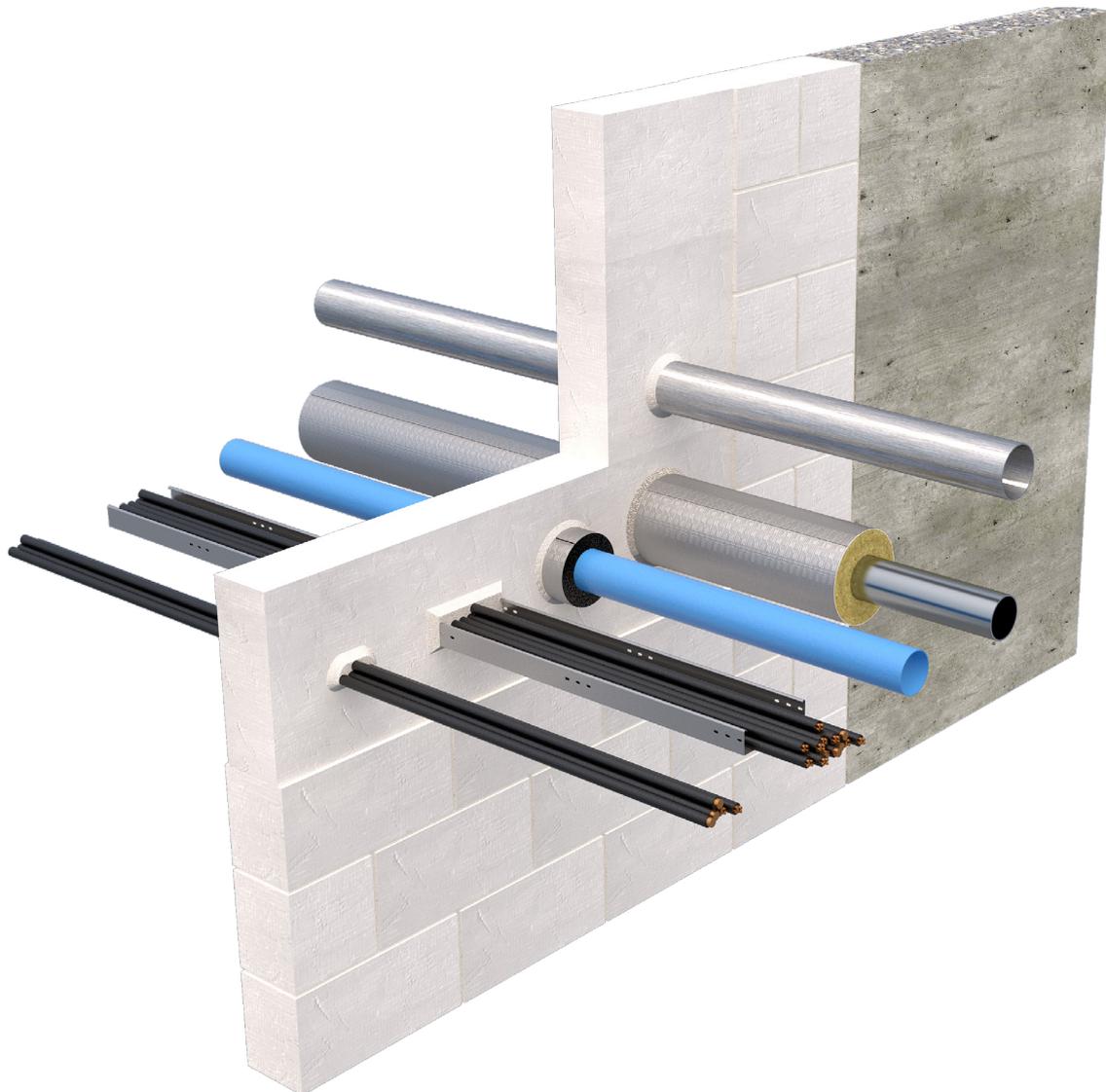
FirePro® High Strength Compound has been replaced by a newer product, FirePro® Compound. This datasheet remains available to support existing projects and specifications.

For new specifications, ROCKWOOL highly recommends the use of FirePro Compound.

*For product information and guidance, visit:
www.rockwool.com/uk/products/firepro-firestop-compound-uk/*



FirePro High Strength Compound



FirePro High Strength Compound is a specially formulated gypsum-based mortar, which is mixed with water to create a workable range from stiff to pourable mix. FirePro High Strength Compound is also suitable for pre-casting into convenient size blocks for use in wall openings.

- Unsupported spans of up to 1800mm
- High load bearing capacity
- Suitable for use with multiple service penetrations
- Can be formed into blocks
- Acoustic barrier
- Effective smoke seal
- Rapid setting

APPLICATIONS

- Re-instating the fire resistance of wall and floor constructions
- Load-bearing floors
- Wall penetrations
- Load-bearing seals around unsupported fire dampers

FirePro High Strength Compound

PERFORMANCE

Fire performance

FirePro High Strength Compound has been independently tested for use in walls and floors.

FirePro High Strength Compound has been certified by UL and CE marked to EAD 350454-00-1104.

Use the links below to access further information on fire performance:

[UL-EU Certificate - UL-EU-01149-CPR >](#)

[ETA 21/0777 >](#)

[Certificate of constancy of performance - 2531-CPR-CXO10261 >](#)

[Fire-stopping Standard Details Guide >](#)

Plastic pipework must be protected with either ROCKWOOL FirePro® Pipe Collars or FirePro® Intumescent Pipe Wraps. For further advice on specific applications and fire performance, please contact ROCKWOOL Technical Solutions on 01656 868590 or technical.solutions@rockwool.com

Acoustic performance

Thickness of compound (mm)	R _w (C _v ;C _v) - Specimen only
50	49 (0;-4) dB
100	52 (0;-3) dB

For specific information on acoustic performance please contact ROCKWOOL Technical Solutions on 01656 868490 or technical.solutions@rockwool.co.uk

Load bearing capability

FirePro High Strength Compound in floor spans of up to 1800mm without the need for further reinforcement. For further information on the load bearing capacity of FirePro High Strength Compound, please contact ROCKWOOL Technical Solutions.

PRODUCT INFORMATION

Property	Description
Description	Grey coloured free flowing powder
Pack Size	20kg bag
Density	1750-1900kg/m ³
Loadbearing	2.5KN/m ² UDL
Fire Resistance	Up to 4 hours*
Acoustic Performance	Rw 57dB (100mm Depth)
Max Unsupported Span	1800mm
Thermal Conductivity	0.45W/mK
Setting Expansion (%)	0.1
Typical Yield	±6bags/m ² at 100mm depth
Expected Shelf Life	6 months (When stored in accordance with the packaging instructions)

*Subject to the application

FirePro High Strength Compound

STANDARDS AND APPROVALS

Certificate
FirePro High Strength Compound has been tested for resistance in accordance with BS 476 Part 20 and EN 1366-3.
FirePro High Strength Compound has been classified as EI 120 in accordance with EN 13501-2
Third party certification through UL, Certificate No. UL-EU-01149-CPR
CE marked to EAD 350454-00-1104



This product has been authorised for use in LUL surface and sub-surface premises when installed in accordance with this datasheet - please refer to the LUL Approved Product Register website www.LU-apr.co.uk for specific details.

INSTALLATION

Mixing

FirePro High Strength Compound can be mixed preferably by mechanical paddle or manually, if required. Measure out the correct amount of clean water into a clean container to achieve the desired consistency. Avoid any cross-contamination with part-cured and new mixes as this can accelerate curing times.

FirePro High Strength Compound: water ratio
Pourable Mix ratio of 3 - 3Vz:1
Trowel Mix ratio of 4:1

Gradually add the FirePro High Strength Compound, stirring continually. Continue mixing until the compound is mixed to a smooth, even consistency. *Any spillage should be wiped up with a damp cloth before setting occurs. Mix only enough material sufficient for use within the recommended pot life (20-30 minutes). Pot life and set times will be reduced for lower water content and higher temperatures.

**FirePro High Strength Compound may stain pipes and services*

Installation should not be carried out when temperatures are above 35°C. Setting times are normally between 30 and 90 minutes.

Warning: Do not attempt to extend working time by remixing with additional water once the mortar has started to set, as this will interfere with the setting process. Always mix in clean buckets.

Fit a shuttering board to the bottom of the opening. Shuttering materials must be able to support the wet weight of the compound under pouring conditions. Pour FirePro High Strength Compound to the required 100mm thickness.

General installation requirements

Ensure that the aperture and services in question are tested with FirePro High Strength Compound, and the site conditions are within the application specification.

All services and apertures need to be clean and clear of all dust and loose particles. The aperture temperature needs to be at 5°C or above at time of installation. Plastic pipework must be protected with either FirePro Pipe Collars or Intumescent Pipe Wraps.

Upon installation make sure that you install the FirePro High Strength Compound to the recommended ratio for the aperture you are installing, make sure that you fill the full depth in a single pour to create a solid structure. Apply a minimum depth of 100mm in a single pour to achieve loadbearing capabilities.

Once filled, smooth off the FirePro High Strength Compound to produce a professional finish.

FirePro High Strength Compound

Wall openings (Figure 1)

For small holes and gaps, trowel a stiff mix into the opening to the correct depth. For larger holes, use an appropriate non-combustible shuttering material to support the mix until it sets, or, if a fair faced finish is required to both sides, consider using a sandwich construction. Alternatively, the FirePro High Strength Compound may be pre-cast into convenient sized blocks, a stiff mix being used as a bedding mortar. All combustible services (Plastic Pipes etc.) should have a ROCKWOOL tested fire rated closure device/material fitted prior to the pouring of the FirePro High Strength Compound.

Floor openings (Figure 2)

When sealing holes in floor slabs, appropriate shuttering must be installed, cut to fit tightly around any services within the opening, to support the wet mix until it sets. Non-combustible shuttering materials, such as mineral fibre slab, can be left in place, but combustible materials must be removed, after the mix has set. For complex penetrations it may be preferable to initially form a thin seal around all services with a nominal 5mm layer of the FirePro High Strength Compound mix. Once this has set, the remaining depth of seal should be poured in one operation. All combustible services (Plastic Pipes etc.) should have a tested fire rated closure device/material fitted prior to the pouring of the FirePro High Strength Compound.

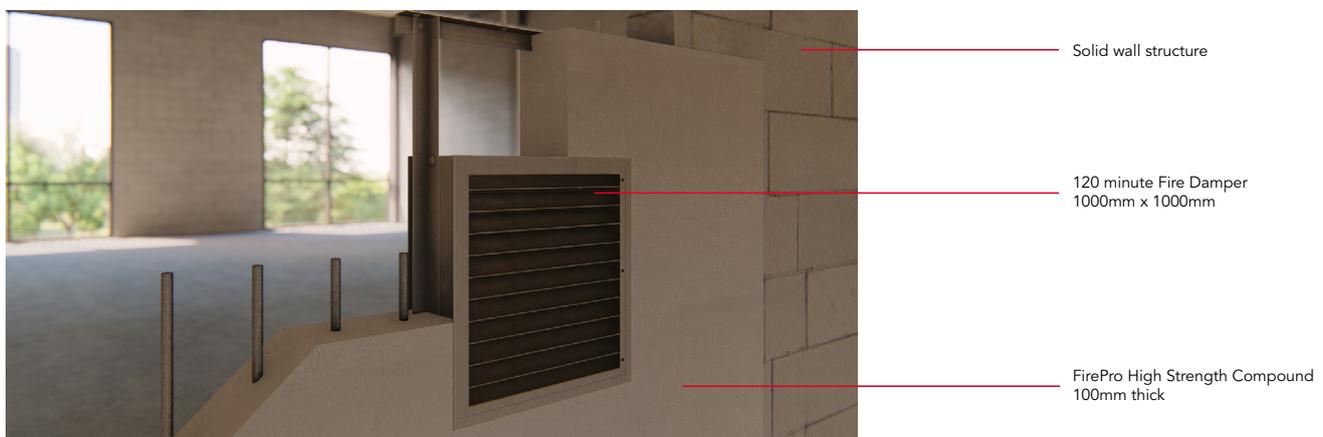


Figure 1

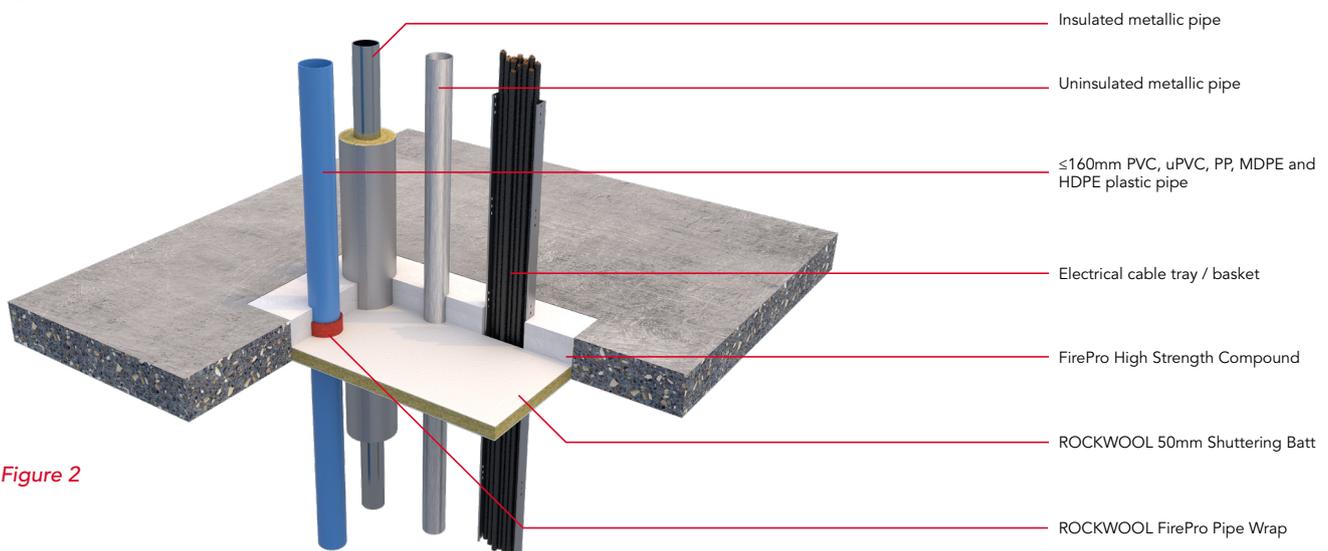


Figure 2

SPECIFICATION CLAUSES

FirePro High Strength Compound is associated with the following NBS clauses:

P12 Fire-stopping systems

340 Boards – Intumescent Mortar

FirePro High Strength Compound

BUILDING SAFETY AND PRODUCT USE

LEGAL NOTICES

General safety requirements – Building Safety Act 2022

ROCKWOOL Limited is committed to supporting specifiers, resellers and users of ROCKWOOL products for the full life cycle of the product to comply with the obligations and responsibilities set out in the Building Safety Act 2022. With regard to the general safety requirements of the Act, ROCKWOOL Limited cannot control or foresee every situation where its products might be used. We therefore strongly advise that specifiers, resellers and users contact us where use of ROCKWOOL products is contemplated in applications different from those explicitly described in the latest, relevant ROCKWOOL product datasheets; especially in applications that can be reasonably foreseen as critical to safety.

ROCKWOOL Limited reserves the right to amend the specification of its products without notice. Changes to the ROCKWOOL manufacturing process, or to pertinent regulations, may be reflected in changes to tested and certified product performance. Whilst ROCKWOOL Limited endeavours to keep its publications up to date, readers will appreciate that between publications there may be pertinent changes in the law or other developments affecting the accuracy of the information contained in our publications.

ROCKWOOL Limited does not accept responsibility for the consequences of using (including testing or certifying) its products in applications different from those explicitly described in the relevant ROCKWOOL product datasheets. Expert advice should be sought, and ROCKWOOL Limited should be contacted, where such different use is contemplated, or where the extent of any use described by ROCKWOOL Limited is in doubt.

The ROCKWOOL Trademark

ROCKWOOL® - our trademark

The ROCKWOOL trademark was initially registered in Denmark as a logo mark back in 1936. In 1937, it was accompanied with a word mark registration; a registration which is now extended to more than 60 countries around the world.

The ROCKWOOL trademark is one of the most important assets of the ROCKWOOL Group, and is therefore well-protected and defended by ROCKWOOL throughout the world.

If you require permission to use the ROCKWOOL logo for your business, advertising or promotion, you must apply for a Trade Mark Usage Agreement.

To apply, write to:
marketcom@rockwool.com

Trademarks

Registered trademarks of the ROCKWOOL Group include but are not limited to:

ROCKWOOL®, RockClose®, RainScreen Duo Slab®, HardRock®, RockFloor® Flexi®, RockFall®, FirePro®, DuctRock®, BeamClad®, NyRock®

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If you require permission to use ROCKWOOL images, you must apply for a Usage Agreement.

To apply, write to:
marketcom@rockwool.com

HEALTH & SAFETY

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.com/uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH)

FirePro High Strength Compound

ROCKWOOL stone wool - safe to install and live alongside

There are no hazardous classifications associated with stone wool insulation manufactured by ROCKWOOL-UK according to EU REACH and UK REACH regulations on health and the environment.

ROCKWOOL safe use instruction sheets and material safety data sheets (where applicable) can be downloaded [here](#).



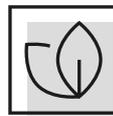
Sustainability

ROCKWOOL products are used to enrich modern living, creating safer, healthier and more climate-resilient communities.

We transform abundant, natural volcanic rock into stone wool insulation products that are used to reduce energy demand, lower fuel bills and help address society's climate change challenges.

ROCKWOOL stone wool insulation is recyclable and can be transformed into new ROCKWOOL products. Please contact us for details of how we can work together to recycle waste ROCKWOOL stone wool material that may be generated during on-site installation.

Our annual sustainability reports, which set out progress against our sustainability goals, and further details of the positive impacts of using our products can be found on our website.



Environment

ROCKWOOL takes a fact-based, auditable approach to documenting our progress in maximising our products' positive impact and minimising the effect our operations have on the environment, backed by third-party references and methodologies. Further details can be found online in our annual sustainability report.

Our high-tech production process uses filters, pre-heaters, after-burners and other cleaning and collection systems that help to reduce the effects of our manufacturing operations on the environment.

ROCKWOOL stone wool insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

