



FirePro[®] Glue

Fire-resistant adhesive for fire protection systems

ROCKWOOL FirePro Glue is a water based, fire-resistant adhesive which is supplied in 17kg tubs and 300ml cartridges.

- Easy to apply
- Sets in as little as 4 hours
- Can be used from -10°C upward



FirePro Glue has been specially formulated for use with FirePro BeamClad[®] and DuctRock[®] Slab where glued joints or noggins are required.

FirePro Glue can also be used where there is a requirement for a fire-resistant adhesive. The product has been widely used in fire tests conducted on ROCKWOOL Fire Protection Systems - achieving fire ratings of up to four hours.



APPLICATIONS

FirePro Glue is suitable for use with FirePro BeamClad and DuctRock Slab where glued joints or noggins are required. FirePro Glue can also be used in conjunction with other ROCKWOOL Stone Wool products where there is a requirement for a fire-resistant adhesive.

Frost exposure does not remove curing ability.

The use of FirePro Glue is not limited to particular temperatures and has been tested when applied to surfaces with temperatures of -10°C and upwards, but the curing rate in-situ can be affected by:

- Temperature (see Table 1)
- Air humidity
- Thickness of glue layer in a joint
- Air access to glued joint (i.e. not sealed off)

Important note:

The temperature of FirePro Glue must be 5°C or more when applied to surfaces at lower temperatures.

PERFORMANCE

FirePro Glue has been widely used in fire tests conducted on ROCKWOOL Fire Protection Systems where fire ratings of up to 4 hours* have been achieved. For further information tested applications please contact ROCKWOOL.

*Subject to the application

PRODUCT INFORMATION

Property	Tub	Cartridge
Pack Size	17kg Tub	300ml cartridge
Application temperature	Surface temperature of ≥ -10°C (Glue must be ≥ 5°C)	Surface temperature of ≥ -10°C (Glue must be ≥ 5°C)
рН	11	11
Shelf Life	12 months	18 months
Fire Rating	Up to 4 hours (When tested with ROCKWOOL Fire Protection Systems)	Up to 4 hours (When tested with ROCKWOOL Fire Protection Systems)

INSTALLATION

Application of glue from tub is typically made by a pallet knife or trowel before pressing surfaces together. The product must always be stirred before use to ensure a uniform product consistency. Application of glue from cartridge is made using a sealant gun and spread evenly over the surface with a spatula or similarly flat bladed tool. Fixing boards together is supplemented by nails, pins or staples through noggin board joints and board joints.

Whilst steel surfaces may be acceptable when just moist to the touch, heavy water droplets, grease, scale oxide, dust etc should be removed prior to the application of FirePro Glue.

Testing has shown that even if glued joints are immediately subjected to heavy frost exposure, the final glued joint strength is not threatened, but curing is retarded.

Glue fixed noggins must be allowed to set fully before any attempt is made to fix cover boards. Table 1 suggests minimum times to allow such setting to occur between ROCKWOOL BeamClad noggins and steelwork.

FirePro Glue may be used to attach cover boards onto cured noggins (and in glued board joints), provided that a 24 hour interval is acceptable before further trades work on such protected steelwork.

Important note: when friction fitted glued joints are exposed to sub-zero temperatures either immediately, or at some time during the curing process, adequate bond stability will form in approximately 1 hour. This bond will be sufficient for cover boards to be applied. Full setting will continue as in Table 1 when frost free conditions return, but stability will be provided by the supplementary pins or nails. The final strength of the glued joints will not be affected by exposure to sub-zero temperatures during the curing process.

Noggins to steelwork

Testing has been carried out under various application conditions. All noggins fitted into steelwork should be cut to provide an interference friction fit of approximately 0.5mm. Excessive oversizing causing the noggins to bend should be avoided (refer to Figures 1-3).

The noggins should be installed so as to be just proud of the flange tips. For web depths greater than 500mm 'solid' noggins or 'T' noggins ROCKWOOL BeamClad must be used.

Again a nominal 0.5mm interference fit is recommended for all ambient conditions, but particularly for winter working. All noggin edges in contact with steelwork must be glued.



Pencoed, Bridgend CF35 6NY Tel: (+44) 1656 862 621 • technical.solutions@rockwool.com

For more information visit rockwool.com/uk

Ambient conditions & curing times

For all year round working, noggins should be cut to provide approximately 0.5mm interference fit into steelwork. Some friction in the fitting is required to satisfy all conditions and to provide a sensible limit to glue thickness.

In typical dry summer conditions of 20°C, curing of the basic glue will occur in approximately 4 hours before cover boards should be added onto the noggins.

The setting times of glue in moist air conditions is approximately 6-8 hours if the temperature is above freezing point, or in approximately 1 hour at 20°C.

	Conditions	Setting time
Table 1Setting times fordifferent conditions	Approx 20°C dry conditions	Approx 4 hours
	Approx 3°C+ with moist air conditions	Greater than 24 hours expected
	-10°C to 0°C	Adequate bond forms within 1 hour but full cure may be delayed over 24 hours when temperatures $0 - 6^{\circ}C$

Storage

Generally storage should be made in frost free conditions. Should frost exposure occur, the glue should be thawed out and thoroughly stirred.

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.

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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.

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To apply, write to: marketcom@rockwool.com

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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)