



PERESEAL

EXPERTISE IN SEALANT TECHNOLOGY

FR

FIRE-RATED ACRYLIC SEALANT



PERESEAL® FR is an intumescent acrylic joint sealant that has a fire-rating of up to 4 hours conforming to BS 476: Part 20. Cures to form a firm yet flexible seal to join a variety of fire-rated applications. Pereseal FR chars and intumesces when exposed to heat, to prevent the spread of heat, smoke and fire through the joint.

APPLICATIONS

For the internal perimeter pointing of fire-rated doors, window frames and duct systems. Also suitable for sealing and filling joints, voids and irregular holes of fire walls, cable and pipe penetrations, and other structures in fire-rated applications.



- 4 hour fire-rating according to BS 476: Part 20
- Certificate of Conformity issued by TÜV SÜD PSB
- Low VOC – qualifies for LEED IEQc4.1 (tested by TÜV SÜD PSB)
- Excellent acoustic insulation
- Intumescent (expands when heated, preventing spread of smoke and fire)
- Excellent slump resistance
- Easy to apply and tool
- Paintable
- Great adhesion to most building materials
- Fast cure (tack-free within an hour)

**ACRYLIC
EMULSION**

**PHYSICAL
DRYING**

UP TO
12%
MOVEMENT



FIRE-RATED



ODOURLESS



PAINTABLE

High performance, intumescent acrylic sealant ideal for a wide range of fire-rated applications.

The Pereseal Difference



Our own production with a focus on quality and control



Tested and certified for many quality standards



We have a wealth of experience in sealants and applications



Used for over 35 years in a wide range of projects



We take pride in our quality standards and control



With our experienced and knowledgeable team

www.pereseal.com

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TECHNICAL DATA

Base	Acrylic emulsion
Consistency	Stable paste
Curing system	Physical drying
Skin formation	ca. 20 minutes
Solid content	min. 80%
Hardness	25±5 Shore A
Shrinkage	None
Specific gravity	1.60 - 1.64
Flashpoint	None
Maximum deformation	±12.5%
Paint acceptance	Very good

JOINT SIZE

Minimum width	5 mm
Maximum width	25 mm
Minimum depth	5 mm
Recommendation	joint width = 2 x joint depth

SUBSTRATE

Substrate: All usual building surfaces

Surfaces should be clean, dry, free of dust and grease. No primer required for aluminium, air-con ducting materials and most porous surfaces of building materials. We recommend a preliminary compatibility test before application.

COLOUR AND PACKAGING

Colour	White, grey
Cartridge volume	300 ml
Packaging	20 cartridges / box

APPLICATION

Application method	Applicator gun
Application temperature	+1°C to +30°C
Clean	with white spirit before application
Tooling	with soapy solution before skin formation
Repair	with PERESEAL FR

STANDARDS/APPROVALS

TÜV SÜD PSB - COC No. CLS1A 15 06 80551 002

BS 476: Part 20: 1987 - WARRES No. 181672

LEED IEQc4.1 - Low-Emitting Materials - Sealants

TYPICAL FIRE RATINGS

Joint substrates and orientation	Joint integrity
Aerated blockwork / aerated blockworks / wall joint	245 minutes
Hardwood / aerated blockworks / wall joint	96 minutes
Softwood / aerated blockworks / wall joint	55 minutes
Steel / aerated blockworks / wall joint	77 minutes

These results show the typical integrity levels of the product in a fire situation. However, each joint situation will have different characteristics and fire rating. In general, it has been found that a greater depth of sealant will provide greater integrity and that the use of double seal i.e. sealant applied at both external faces of a joint will increase values further.

OTHER NOTES

Storage and shelf life

24 months for unopened packaging in cool and dry storage place at temperature between 5°C to 25°C

Safety measures

Apply the usual industrial hygiene

Remarks

The sealant must be protected from water for 24 hours after application. It must not be used on area where it will be constantly submerged in liquids.

The directives contained in this documentation are the result of our experiments and of our experiences and have been submitted in good faith. Because of the diversity of materials and substrates and the great number of possible applications which are beyond our control, we cannot accept any responsibility for the results obtained. In every case, it is recommended to carry out preliminary experiments.



Proudly made by PFE Technologies in Singapore

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ABOUT PFE

PFE Technologies Pte Ltd is an established distribution and manufacturing company producing and supplying abrasives and sealant products. The company has owned, manufactured, marketed and distributed the Pereseal range of sealants for over three decades.

Established in Singapore in 1978, PFE Technologies has gained a reputation for quality, reliability, and outstanding value. PFE's mission is to deliver a superior level of services and products to achieve enduring, life-long customer satisfaction and relationships.