Firebreak 55 Putty

TECHNICAL DATA SHEET

Firebreak 55 Fire Resistant Non-Setting Putty is made from silicone based ablative polymer with additional fire resistant additives, and is designed to reinstate the fire resistance of small cable service penetrations through walls.

Description

Firebreak 55 Fire Resistant Non-Setting Putty is a silicone based ablative polymer with additional fire resistant additives. It is designed to maintain the fire resistance of walls when penetrated by electrical cabling passing through small openings. Under fire conditions the fire resistant fillers combine to form a dense block of fire resistant char that restricts the passage of smoke and fire.

The non-setting nature of the material allows for easy future modification of the fire seal enabling the removal of existing cables or introduction of new cables whilst reusing the Putty to reinstate the fire seal.

Fire testing has been conducted in conjunction with a range of cable service penetrations through fire compartmenting 100mm thick flexible (plasterboard) partitions allowing the results to be applied to both partitions and masonry walls of equal or greater thickness.

Performance

Firebreak 55 Fire Resistant Non-Setting Putty has been tested to the latest European requirements for applications in walls. Testing to other national standards is also available.

- Fire Classification to EN 13501-2 and CE Mark (ETA 17/0779)

- Flexible Walls (stud partitions) or rigid walls (masonry, concrete) of 100mm minimum thickness

- Tested in conjunction with a wide range of cable types

- Mechanical and durability testing to ETAG 026-2; Y_2 (-5°/70°C) (internal use with temperature range of -5°C to +70°C and high humidity)

Cable penetrations in partitions or masonry/concrete walls of 100mm minimum thickness sealed with 20mm minimum depth of Firebreak 55 Fire Resistant Non-Setting Putty to both faces

Penetrating service	Fire performance (mins)	
	Integrity (E)	Integrity & insulation (EI)
Electrical cables – Type A1, in a bundle of up to 10	120	120
Electrical cables – Type A2, in a bundle of up to 10	120	90
Electrical cables – Type A3, in a bundle of up to 5	120	90
Electrical cable – Type C1, single cable	120	90
Electrical cable – Type C2, single cable	120	90
Electrical cable – Type D1, single cable	120	60
Electrical cables – Type E, in a bundle of up to 4	120	120
Electrical wire – Type G1 up to 18mm diameter, single cable	120	45
Electrical wire – Type G2 up to 24mm diameter, single cable	120	60
Telecommunication cables up to 21 mm diameter in a bundle of up to 32	120	120
Telecommunication cables up to 21 mm diameter in a bundle of up to 144	120	60

Type A1 cable = 5 x 1.5 mm 2 core HD603.3 electrical cable with PVC insulation, PVC sheath and 14 mm diameter.
Type A2 cable = 5 x 1.5 mm2 core HD22.4 electrical cable with EPR insulation, PO sheath and 11.2-14.4 mm diameter.
Type A3 cable = 5 x 1.5 mm2 core HD604.5 electrical cable with XLPE insulation, EVA sheath and 13 mm diameter.
Type C1 cable = 4 x 95 mm2 core HD604.5 electrical cable with XLPE insulation, EVA sheath and 42 mm diameter.
*Type C2 cable = 4 x 95 mm2 core HD22.4 electrical cable with EPR insulation, PO sheath and 48.4-61 mm diameter.*
*Type D1 cable = 4 x 185 mm2 core HD603.3 electrical cable with PVC insulation, PVC sheath and 52 mm diameter*
Type E cable = 1 x 185 mm2 core HD603.3 electrical cable with PVC insulation, PVC sheath and 23-27 mm diameter.
Type G1 wire = 1 x 95 mm2 H07V-R HD 21.3 electrical wire with PVC insulation and 14.1-17.1 mm diameter.
*Type G2 wire = 1 x 185 mm2 H07V-R HD 21.3 electrical wire with PVC insulation and 19.3-23.3 mm diameter.*

CE
0843
18
0843-CPR-0430
ETA 17/0779
Firebreak 55 Fire Resistant
Non-Setting Putty
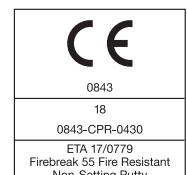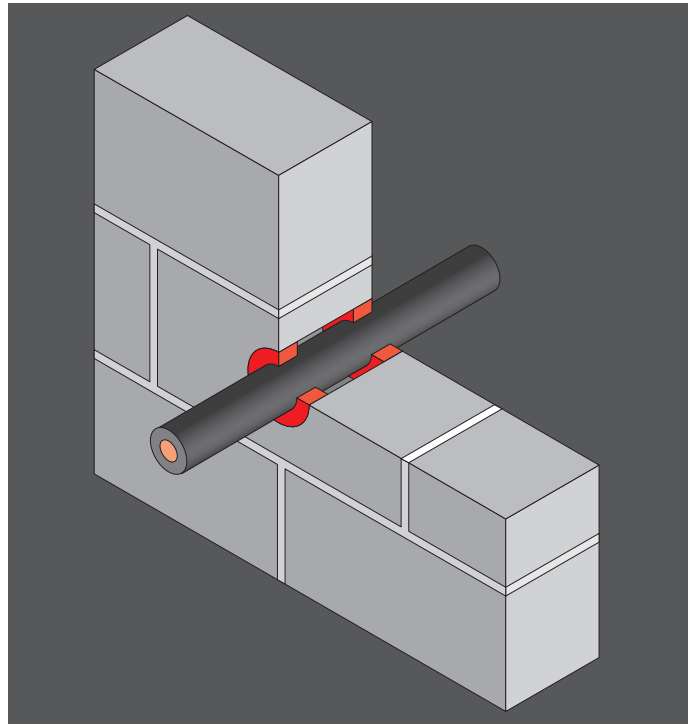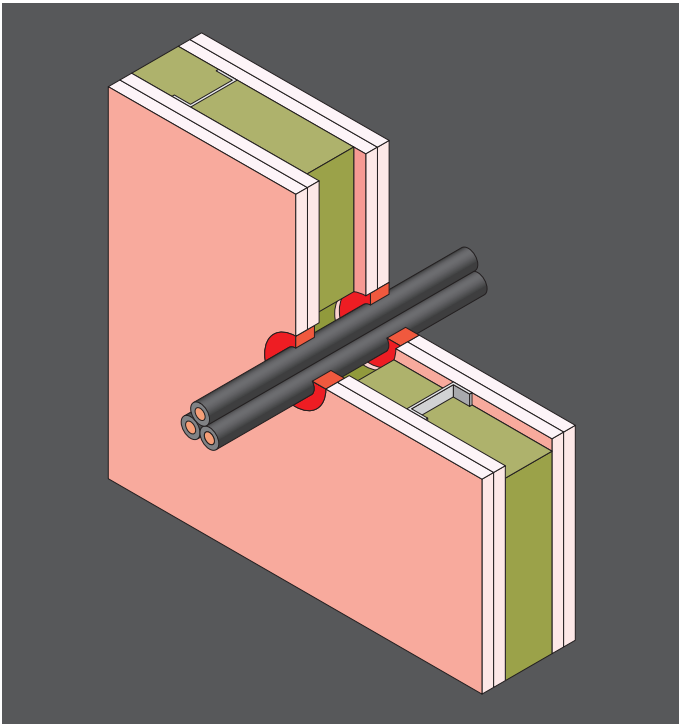
Other Properties

- Colour: Red
- Specific gravity: 1.64 – 1.70
- Skinning time: Non-Setting
- Cure time: Non-Setting
- Activation temperature: Approx. 200℃
- Hardness (Shore A): 12 – 15 (variable with manipulation)
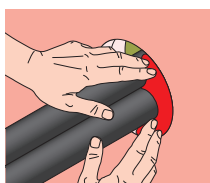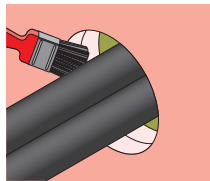
Installation

- Ensure contact surfaces are clean, dry and dust free

- Apply between 5℃ and 40℃

- Knead the Putty by hand until fully malleable

- Using fingers press the Putty into the opening around and between the cables ensuring the opening is fully closed with Putty to a minimum depth of 20mm

- Repeat the procedure on the opposite face of the wall

End use conditions

Firebreak 55 Fire Resistant Non-Setting Putty is intended for internal use and has been subjected to EN mechanical and durability testing to support use across a wide temperature range of -5℃ to +70℃ and in high humidity conditions

Maintenance

No routine maintenance is required although periodic inspection for possible damage is recommended. All penetrations seals which are subsequently modified should be made good using Firebreak 55 Fire Resistant Non-Setting Putty.

Supply, packaging and usage

Firebreak 55 Fire Resistant Non-Setting Putty is supplied in 1kg re-sealable plastic tubs, normally packed in boxes of 6 (395mm x 270mm x 145mm high, 6.38kg).

Storage

It is recommended to store in dry conditions between 5℃ and 35℃.

Shelf life

24 months when stored under recommended storage conditions.

Health and safety

Please refer to safety data sheet before use.

Since the product is applied under circumstances beyond our control, Neutron Fire Technologies Limited can accept no direct or consequential liability whether in contract or in tort, for the interpretations of such recommendations and reserves the right to modify the recommendations as necessary.

firebreak®

Fire Safety by Design

QMS
ISO 9001
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ASFP
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