Multisealant A

Firestop Acrylic Sealant

European
Technical Assessment
ETA 16/0487

Technical Data Sheet

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Pragmatic, effective and applicable solutions

Content

Multisealant A

Firestop Acrylic Sealant

Fire resistance
≤ 240 minutes

Acoustic insulation
Rw 62 dB

Working life
30 years

Paintable
after 24 hrs

Firestop Acrylic Sealant

Multisealant A is an acrylic-based firestop sealant for the fire-resistant sealing of joints and gaps. It provides a fire-resistant and smoke-proof seal to adjacent rooms. Multisealant A expands when exposed to heat and creates a fire-resistant seal.

Multisealant A forms part of the Mulcol® MultiSeal System.

Advantages

- Fire resistance ≤ 240 minutes
- CE-certified
- Very high acoustic insulation
- Environmentally and user-friendly
- Quick and easy application
- Suitable for most substrates and non-porous surfaces, including concrete, masonry, steel, plaster, glass and plastics
- No primer needed for use on most surfaces
- Fast drying
- Remains elastic during movement up to 12.5% (in acc. with ISO 11600)
- Paintable
- Shelf life of 18 months after production date
- Working life of 30 years

Applications

- Rigid floors
- Rigid walls
- Flexible walls

- Joint width in floors up to 100 mm
- Joint width in walls up to 30 mm

Packaging

	Contents	Box	Pallet	Pallet	Article number
Cartridge	310 ml	12 pieces	128 boxes	1536 pieces	101012310
Foil-packed	600 ml	12 pieces	91 boxes	1092 pieces	101012600

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1. Technical Data

EAN number of 310ml cartridge	8719324470476
EAN number of 600ml foil-packed	8719324470025
Condition	Ready for use, acrylic
Colour	White
Colour code	RAL 9002 / NCS S1002-Y
Shelf life	18 months in unopened packaging at a temperature between +10°C and 30°C
Transport and storage temperature	5°C to 30°C
Application temperature	5°C to 30°C
Temperature resistance	-20°C to +70°C
Film formation	After max. 25 minutes
Tack-free	After max. 75 minutes
Fully hardened	3 to 5 days, depending on thickness and temperature
Flexibility	± 12.5% (in accordance with ISO 11600)
Density	1.56 - 1.60 g/cm^3
Thermal conduction	0.845 W/mK (+/- 3%) with thickness of 20mm
Flashpoint	no
Utilisation category 1)	Type Z_2 in compliance with ETAG 026-3
Recoatable 2)	Yes
Installation from one side possible	Yes
Suited as smoke-proof finish for ducts	Yes (S_a – S_{200})
Acoustic properties	RW 62 dB (with a depth of 12mm, one-sided installation)
Fire rating	D-s1, d1 in compliance with EN 13501-1
LEED VOC	42 - 62 g/l
Approvals	ETA 16/0487
Compatibility	Compatible with most materials, but cannot be used in direct contact with bituminous materials
Functional integrity	30 years

1) Permissible environmental conditions

Joint sealant for use in interior conditions with humidity of < 85% RH without temperatures below 0°C and without exposure to rain and/or UV (TR 024:2009, type Z_2).

2) Recoatable

Mulcol® Multisealant A can be recoated with most emulsion and alkyd (gloss) paints.

2. Acoustic Properties

Multisealant A has been tested at BM Trada (UKAS accredited); in compliance with EN ISO 10140-2: 2010. The same level or a higher level of acoustic insulation can be achieved through a deeper or double-sided seal or by using a backing material. The acoustic insulation rating applies only to the sealant, and not to other elements in the building construction.

- ✓ With one-side seal with a depth of 12mm, without backing: RW 62 dB
- ✓ With two-sided seal with a depth of 12mm, without backing: RW > 62 dB

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3. Instruction Manual

Make sure the joint is free from dust, dirt and grease. Moisten the structure, if necessary.

Apply Multisealant A generously to the joint to prevent air bubbles.

If backing is applied, cut it slightly wider than the joint width and make sure that it is applied to the correct depth in the joint.

Smooth the joint with a damp spatula or filler knife.

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Information

For use and for more information about an application, refer to the Mulcol documentation and local and international approvals.

See the **Mulcol Fire Protection app** for the correct application in combination with fire resistance, or use our selector at **www.mulcol.com**

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4. Consumption Tables

Per cartridge of 310 ml

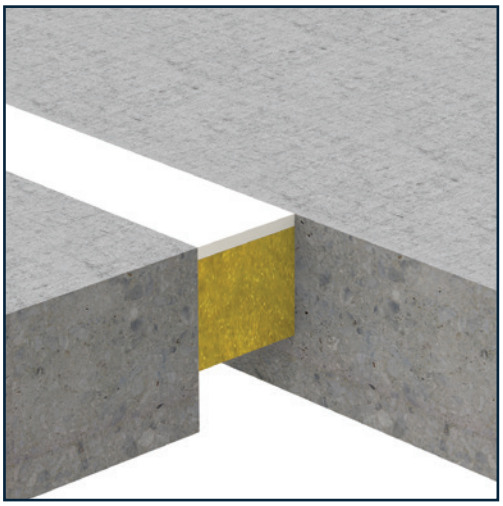
Joint width	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm	80 mm	100 mm
Joint depth 12.5 mm	2,45 m¹	1,65 m¹	1,20 m¹	1,00 m¹	0,80 m¹	0,60 m¹	0,50 m¹	0,40 m¹	0,30 m¹	0,25 m¹
Joint depth 15 mm	2,05 m¹	1,35 m¹	1,00 m¹	0,80 m¹	0,65 m¹	0,50 m¹	0,40 m¹	0,30 m¹	0,25 m¹	0,20 m¹
Joint depth 25 mm	1,20 m¹	0,80 m¹	0,60 m¹	0,50 m¹	0,40 m¹	0,30 m¹	0,25 m¹	0,20 m¹	0,15 m¹	0,10 m¹

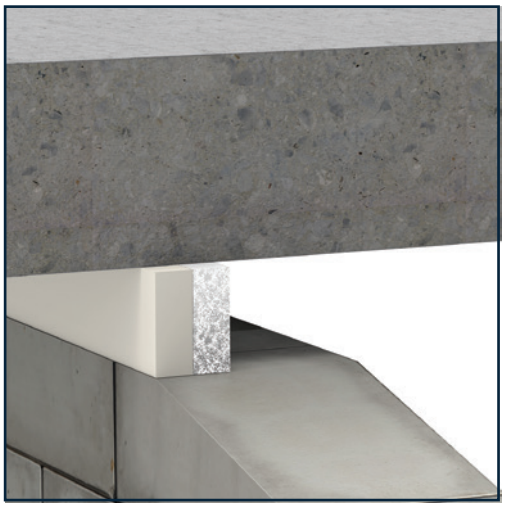
Per foil-packed of 600 ml

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm	80 mm	100 mm
Joint depth 12.5 mm	4,80 m¹	3,20 m¹	2,40 m¹	1,90 m¹	1,60 m¹	1,20 m¹	0,95 m¹	0,80 m¹	0,60 m¹	0,45 m¹
Joint depth 15 mm	4,00 m¹	2,65 m¹	2,00 m¹	1,60 m¹	1,30 m¹	1,00 m¹	0,80 m¹	0,65 m¹	0,50 m¹	0,40 m¹
Joint depth 25 mm	2,40 m¹	1,60 m¹	1,20 m¹	0,95 m¹	0,80 m¹	0,60 m¹	0,45 m¹	0,40 m¹	0,30 m¹	0,20 m¹

5. Backing

To achieve a higher level of acoustic or thermal insulation, Multitherm Backing can be used alongside mineral wool as a support material. Multitherm Backing is a glass fibre-based, biodegradable, ceramic support material that offers heat resistance up to 1260°C. Refer to the “performance overview” on pages 7 and 8 for situations where the use of a backing material is required.





6. Performance Overview

Linear joint seals between light partitions and walls and floors made of brickwork, aerated concrete, or concrete

EN 1366-4

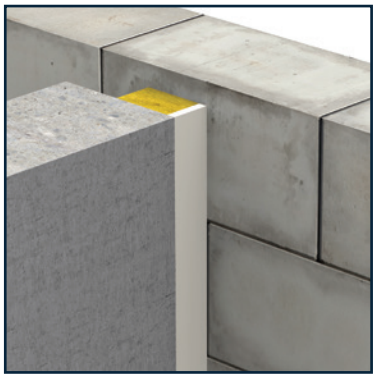
Construction	Thickness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Plasterboards / stone-like material (brickwork, aerated concrete, or concrete)	≥ 75	2	≥ 12,5	MS-profile	≥ 50	≤ 25	≤ E 60 – T – X – F – W 25 ≤ EI 45 – T – X – F – W 25
						≤ 15	≤ E 60 – V – X – F – W 15 ≤ EI 45 – V – X – F – W 15

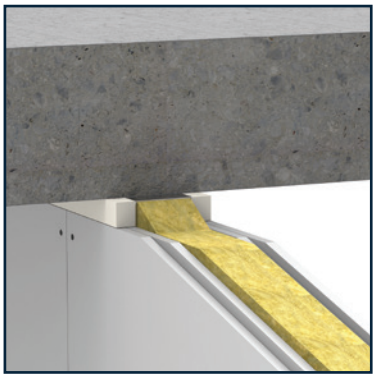
Construction	Thickness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Plasterboards / stone-like material (brickwork, aerated concrete, or concrete)	≥ 100	2	≥ 12,5	Mineral wool[1] + MS-profile	≥ 12,5	≤ 30	≤ EI 120 - T - X - F - W 00 to 30
				Mineral wool[1]	≥ 20		≤ EI 120 - V - X - F - W 00 to 30
			≥ 25	MS-profile	≥ 50		≤ EI 120 - T - X - F - W 00 to 30
			≥ 12,5			≤ 25	≤ EI 90 - T - X - F - W 25
						≤ 10	≤ EI 90 - V - X - F - W 15

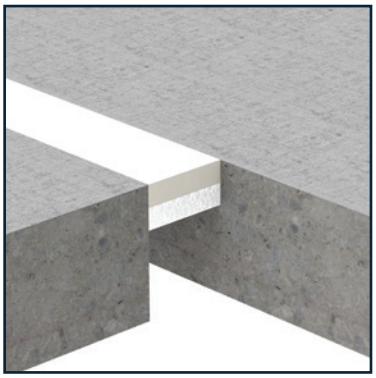
[1] Mineral wool insulation at 35 kg/m³

E: Integrity relating to the sealing
I: Thermal insulation relating to the surface temperature

V Vertical joint
H Horizontal joint
T Horizontal application between walls and floors
X No movement measured during the test
F Installed and applied in situ, no prefab parts
W Certified and tested width (for example W 00 to 100)







Linear joint seals between wall and floor constructions made of brickwork, aerated concrete, or concrete

EN 1366-4

Construction	Thickness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Stone-like material (brickwork, aerated concrete, or concrete)	≥ 150	1	≥ 25	Mineral wool[1]	≥ 20	≤ 30	≤ E 240 - T - X - F - W 00 to 30 ≤ EI 60 - T - X - F - W 00 to 30
		2	≥ 15				≤ E 240 - V - X - F - W 00 to 30 ≤ EI 240 - T - X - F - W 00 to 30
		1	≥ 10	Mineral wool[1]	≥ 60	≤ 50	≤ E 240 - T - X - F - W 50 ≤ EI 60 - T - X - F - W 50 ≤ EI 120 - V - X - F - W 50
			≥ 25	Multitherm Backing[1]	≥ 48	≤ 30	≤ E 240 - T - X - F - W 00 to 30 ≤ EI 120 - T - X - F - W 00 to 30

Linear joint seals between solid floor constructions and between solid floors and walls made of aerated concrete or concrete

EN 1366-4

Construction	Thickness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Stone-like material (aerated concrete or concrete)	≥ 150	1	≥ 25	Multitherm Backing[5]	≥ 25*	≤ 30	≤ E 120 - H - X - F - W 00 to 100 ≤ EI 60 - H - X - F - W 00 to 100
					≥ 25**		≤ EI 180 - H - X - F - W 00 to 100
		2	≥ 15	Mineral wool[2]	≥ 25		≤ EI 120 - H - X - F - W 00 to 100
				Mineral wool[4]	≥ 25		≤ EI 180 - H - X - F - W 00 to 100
				Mineral wool[1]	≥ 25	≤ 30	≤ EI 240 - H - X - F - W 00 to 30
		1	≥ 10	Mineral wool[3]	≥ 90**	≤ 100	≤ EI 240 - H - X - F - W 100

** The seal can be applied anywhere in the floor*
*** The seal must be applied on the upper surface of the floor*

E: Integrity relating to the sealing
I: Thermal insulation relating to the surface temperature

V Vertical joint
H Horizontal joint
T Horizontal application between walls and floors
X No movement measured during the test
F Installed and applied in situ, no prefab parts
W Certified and tested width (for example W 00 to 100)

[1] Mineral wood insulation at 35 kg/m³
[2] Mineral wool insulation at 40 kg/m³
[3] Mineral wool insulation at 33 kg/m³
[4] Mineral wool insulation at 140 kg/m³
[5] Multitherm Backing at 128 kg/m³

7. Actually Tested Solutions

All the latest tested solutions with the Multisealant A can be found in our **Multiselector**. Scan the QR code or press the Multiselector button to get directly to the tested solution for your project.

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Our **Multiselector** can also be found in our **Mulcol Fire Protection App**.
It can be downloaded from the **App Store** (iOS) or **Google Play Store** (Android).

App Store Google Play

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8. Building Element Properties

Flexible walls
The minimum wall thickness must be 75 mm and the wall must consist of steel or wooden posts* with at least 1 layer of cladding on both sides with a thickness of 12.5 mm. The use of insulation material between the boards of the wall is optional.

Rigid walls
The minimum wall thickness is 150 mm and the wall must consist of concrete, aerated concrete or brickwork, with a minimum density of 650 kg/m^3.

Rigid floors
The minimum floor thickness is 150 mm and the floor must consist of concrete or aerated concrete, with a minimum density of 650kg/m^3.

The support structure must be classified in accordance with EN 13501-2 for the specified fire resistance.

9. Available Documents

Technical documents
- Product Data Sheet (PDS)
- Technical Data Sheet (TDS)
- Safety Data Sheet (SDS)
- Instruction Manual
- EC certificate 0843-CPR-0313
- Emission reports
- Acoustic report no. BMT/MTZ/F13079/01/AR2

Approvals
- Tested in accordance with EN 1366-4
- Classification in accordance with EN 13501-2
- Certified in accordance with ETAG 026-3
- ETA report 16/0487
- Declaration of performance (DoP) nr. MSS-A 0843-CPR-0313

The above documents are available from your Mulcol contact person or via www.mulcol.com

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For help in finding the right fire-retardant finish for penetrations, see our **Multiselector** at **www.mulcol.com** or download the **Mulcol Fire Protection App** in the **App Store** (iOS) or **Google Play Store** (Android).

Available for Apple App Store | Available for Android Google play | YouTube | VR Virtual Reality | AR Augmented Reality | MultiSelector

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