

Multisealant A

Firestop Acrylic Sealant

European
Technical Assessment
ETA 23/0052



Technical Data Sheet

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INTERNATIONAL

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Pragmatic, effective
and applicable
solutions



Multisealant A

Firestop Acrylic Sealant



Fire resistance
≤ 240 minuten



Acoustic insulation
Rw 54 dB



Working life
30 Jaar

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 slightly when exposed to heat and creates a fire-resistant seal.

Multisealant A forms part of the Mulcol® Penetration Seal 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
- ✓ Recoatable
- ✓ Working life of 30 years

Application

- ✓ Rigid floors
- ✓ Rigid walls
- ✓ Flexible walls
- ✓ Joint width in floors up to 100 mm
- ✓ Joint width in walls up to 50 mm
- ✓ Jointed width between walls en floors up to 50 mm
- ✓ Joint width between walls and wooden window frames up to 20 mm
- ✓ Joint width between walls and steel deck floors up to 30 mm

Packaging

	Contents	Box	Pallet	Pallet	Article number
Cartridge	310 ml	12 pieces	128 boxes	1536 pieces	201012310
Foil-packed	600 ml	12 pieces	91 boxes	1092 pieces	101012600

1. Technical data

Product:	EAN-code
Multisealant A cartridge - 310 ml	8719324470476
Multisealant A foil-packed - 600 ml	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 +5 °C en +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
Non- adhesive	After max. 75 minutes
Fully cured	3 to 5 days, depending on the thickness and the temperature
Specific weight	1,56 - 1,60 g/cm ³
Utilisation category ¹⁾	Type Z ₂ in accordance with EAD 350454-00-1104
Recoatable ²⁾	Yes
Installation from one side possible	Yes
Suitable for smoke-tight sealing of penetrations	S _a en S ₂₀₀ compliant NEN 6075
Acoustic properties	12 mm depth + 15mm backing: R _{s,w} (C;Ctr) = 54 (-3 ; -10) dB and R _{s,m} _{ax,w} (C;C _{tr}) = 58 (-5 ; -13) dB
Reaction to fire class	E in accordance with EN 13501-1
VOC content	12 g/L
Approvals	ETA 23/0052
Compatibility	Suitable for use with most materials, but should not be used in direct contact with bituminous materials.
Function integrity	30 years

¹⁾ Permissible environmental conditions

Conduit seal for use in conditions with < 85% RV, protected from temperatures below 0 °C, and without exposure to rain and/or UV (TR 024, type Z₂).

²⁾ Recoatable

Mulcol® Multiselant A can be painted with most emulsion or alkyd (gloss) paints.

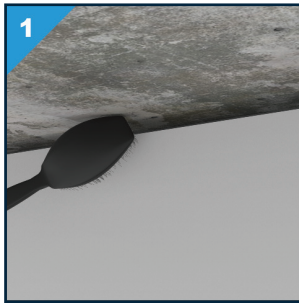
2. Acoustic properties

The same or higher acoustic insulation can be achieved with a deeper or double-sided seal. The acoustic insulation value applies only to the sealant and not to other elements in the building structure.

✓ For one-sided sealing 12 mm deep, with backing: R_w 54 dB


3. Installation Manual

1




Make sure that the service penetration and the gap are free from dust, dirt and grease. Moisten the structure.

3



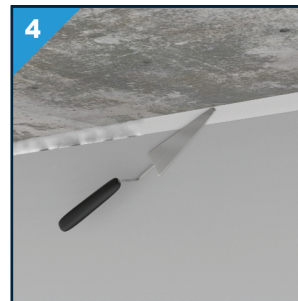
Apply Multisealant A generously in the gap to prevent air bubbles.

2



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

4



Smooth the joint with a damp spatula or filler knife.



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

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 m ¹	1.65 m ¹	1.20 m ¹	1.00 m ¹	0.80 m ¹	0.60 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹
Joint depth 15 mm	2.05 m ¹	1.35 m ¹	1.00 m ¹	0.80 m ¹	0.65 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹	0.20 m ¹
Joint depth 25 mm	1.20 m ¹	0.80 m ¹	0.60 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹	0.20 m ¹	0.15 m ¹	0.10 m ¹

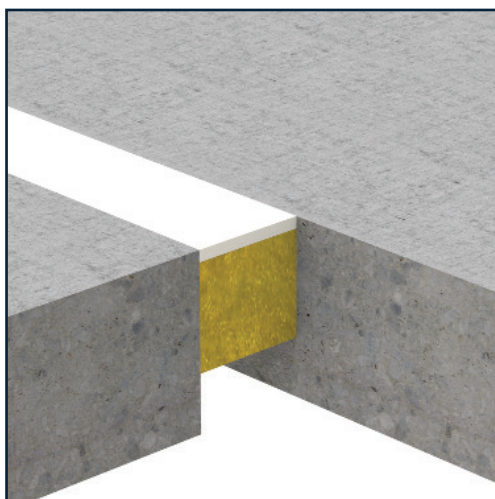
Per foil-packed of 600 ml

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 m ¹	3.20 m ¹	2.40 m ¹	1.90 m ¹	1.60 m ¹	1.20 m ¹	0.95 m ¹	0.80 m ¹	0.60 m ¹	0.45 m ¹
Joint depth 15 mm	4.00 m ¹	2.65 m ¹	2.00 m ¹	1.60 m ¹	1.30 m ¹	1.00 m ¹	0.80 m ¹	0.65 m ¹	0.50 m ¹	0.40 m ¹
Joint depth 25 mm	2.40 m ¹	1.60 m ¹	1.20 m ¹	0.95 m ¹	0.80 m ¹	0.60 m ¹	0.45 m ¹	0.40 m ¹	0.30 m ¹	0.20 m ¹



5. Backing

To achieve a higher acoustic or thermal value, in addition to stone wool, Multitherm Backing can also be chosen as a support material. This is a glass-fibre-based, biodegradable, ceramic backing material and heat-resistant up to 1260 °C. The “performance overview” on pages 7 and 8 shows in which cases backfilling is required.



6. Performance Overview

Linear joint seals between walls and wooden frame (e.g. window frame)

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Flexible wall - Wooden frame	≥ 100	1*	≥ 10	PE foam	≥ 10	≤ 15	≤ EI 90 - V - X - F - W 00 to W15
		2				≤ 30	≤ EI 90 - V - X - F - W 00 to W30
1*		≤ 15				≤ EI 90 - V - X - F - W 00 to W15	
2		≤ 30				≤ EI 90 - V - X - F - W 00 to W30	
Rigid wall - Wooden frame							

Vertical linear joint seals between flexible and rigid walls

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classificatie minutes to
				Type	Depth [mm]		
Flexible wall - Rigid wall	≥ 100	2	≥ 12,5	MS-profile	≥ 50	≤ 15	≤ EI 90 - V - X - F - W00 to W15
			≥ 25	None	-		≤ E 180 - V - X - F - W00 to W15
			≥ 12,5	Stone wool	≥ 12,5	≤ 30	≤ EI 120 - V - X - F - W00 to W30
							≤ E 180 - V - X - F - W00 to W30

Horizontal linear joint seals between flexible walls and rigid floors

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Flexible wall - Rigid floor	≥ 100 wall	2	≥ 12,5	MS-profile	≥ 50	≤ 30	≤ EI 120 - T - X - F - W00 to W30
	≥ 150 floor		≥ 25	MS-profile +	≥ 50 + 12,5		≤ E 180 - T - X - F - W00 to W30
			≥ 12,5	Stone wool			

Vertical linear joint seals between rigid walls

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Rigid wall - Rigid wall	≥ 100	2	≥ 10	PE foam	≥ 10	≤ 15	≤ EI 180 - V - X - F - W00 to W15
		1*					≤ EI 30 - V - X - F - W00 to W15
		2	≤ EI 120 - V - X - F - W00 to W30				
		1*	≤ EI 180 - V - X - F - W00 to W15				
			≥ 15			≤ 30	≤ E 180 - V - X - F - W00 to W30
			1*			≤ 40	≤ EI 60 - V - X - F - W00 to W30
			≥ 20			≤ 30	≤ EI 180 - V - X - F - W00 to W30
			≥ 20			≤ 40	≤ EI 30 - V - X - F - W00 to W40
			≥ 20	≤ 30	≤ EI 240 - V - X - F - W00 to W30		
	≥ 150	2	≥ 15	Stone wool	≥ 20	≤ 30	≤ EI 120 - V - X - F - W00 to W50
		1*	≥ 10		≥ 60	≤ 50	≤ E 180 - V - X - F - W00 to W50

* No matter which side

** Top of floor

V Vertical joint

H Horizontal joint

T Horizontal application between walls and floors

X No movement absorption during the test

F Installed and applied on site, no prefabricated parts

W Certified and tested widths

Horizontal linear joint seals between rigid walls

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Rigid wall - Rigid wall	≥ 150	2	≥ 15	Stone wool	≥ 25	≤ 40	≤ EI 240 – T – X – F – W00 to W40
		1*					
		2	≥ 10			≥ 100	≤ 100
					≥ 50		

Horizontal linear joint seals between rigid walls and rigid floors

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes
				Type	Depth [mm]		
Rigid wall - Rigid floor	≥ 100 wall	2	≥ 10	PE foam	≥ 10	≤ 15	≤ EI 180 – T – X – F – W00 to W15
		1*				≤ EI 30 – T – X – F – W00 to W15	
		2	≤ EI 180 – T – X – F – W00 to W15				
	≥ 150 floor	1*	≥ 15	Stone wool	≥ 20	≤ 30	≤ EI 180 – T – X – F – W00 to W30
		2				≤ EI 60 – T – X – F – W00 to W30	
		1*	≥ 10			≥ 60	≤ 50
						≤ EI 240 – T – X – F – W00 to W30	≤ EI 180 – T – X – F – W00 to W50

Horizontal linear joint seals between rigid walls and steel floors

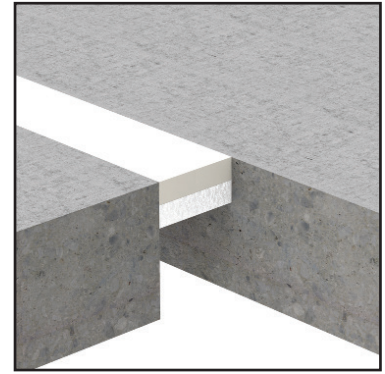
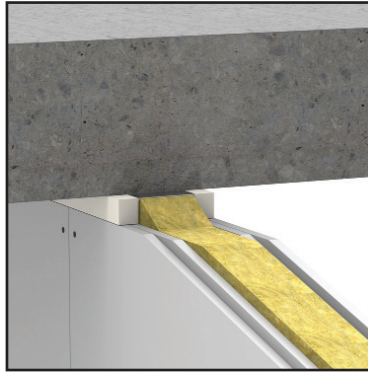
Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to
				Type	Depth [mm]		
Rigid wall - Rigid steel floor	≥ 100 wall ≥ 150 floor	2	≥ 15	Stone wool	≥ 70	≤ 30	≤ EI 120 – T – X – F – W00 to W30 ≤ EI 180 – T – X – F – W00 to W30

Linear joint seals between solid floors

Construction	Thick-ness [mm]	Installation side(s)	Minimum joint depth [mm]	Backing		Maximum joint width [mm]	Classification minutes to	
				Type	Depth [mm]			
Rigid floor - Rigid floor	≥ 150	2	≥ 15	Stone wool	≥ 25	≤ 40	≤ EI 240 – H – X – F – W00 to W40	
		1*						
		1**	≥ 10			≥ 90	≤ 100	≤ EI 240 – H – X – F – W00 to W100
		2				≥ 50		

* No matter which side
** Top of floor

V Vertical joint
H Horizontal joint
T Horizontal application between walls and floors
X No movement absorption during the test
F Installed and applied on site, no prefabricated parts
W Certified and tested widths



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.



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).



8. Building element properties

Flexible walls

The minimum wall thickness should be 100 mm and the wall should consist of steel or wooden studs* with at least 2 layers of cladding with a thickness of 12.5 mm.

Rigid walls

The minimum wall thickness should be 100 mm and the wall should consist of concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³ or wood (CLT) with a minimum density of 400 kg/m³.

Rigid floors

The minimum floor thickness should be 150 mm and the floor should consist of concrete or aerated concrete, with a minimum density of 650kg/m³ or wood (CLT) with a minimum thickness of 140 mm and a density of 400 kg/m³.

**There must be a minimum distance of 100 mm from any part of the grommet seal to a wooden stile, and the cavity between the grommet seal and the stile must be closed. The cavity between the penetration seal and the stile must have at least 100 mm of Class A1 or A2 (according to EN 13501-1).*

9. Available documents

Technical documents

- ✓ Product Data Sheet (PDS)
- ✓ Technical Data Sheet (TDS)
- ✓ Safety Data Sheet (SDS)
- ✓ Installation Manual
- ✓ CE certificate
- ✓ Emission reports
- ✓ Acoustic report

Approvals

- ✓ Tested in accordance with EN 1366-4
- ✓ Classification in accordance with EN 13501-2
- ✓ Certified in accordance with EAD 350141-00-1106
- ✓ ETA report 23/0052
- ✓ Declaration of Performance (DoP)

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



For help in finding the right fire-stopping 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).



For the digital registration of firestopping in your buildings, you can use the **Mulcol Data Manager** free of charge. For registration on site, use our **Mulcol Fire Protection App**.



Multiselector



DataManager

Mulcol International BV has compiled the technical data of this sheet with the utmost care and reserves the right to change product properties without prior notice. The user of this data remains responsible at all times for its correct application. In case of ambiguities or doubts, we advise you to consult with Mulcol International BV to ascertain whether this data meets the required application.

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