

BUILDING TRUST

Sikacryl®-620 Fire

DECLARATION OF PERFORMANCE

No. 76196613

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	76196613
2	INTENDED USE/S	ETA-20/1115/EAD 350141-00-1106:2017 Fire stopping and fire sealing products, linear joint and gap seals
3	MANUFACTURER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	AUTHORISED REPRESENTATIVE:	
5	SYSTEM/S OF AVCP:	System 1
6b	EUROPEAN ASSESSMENT DOCUMENT:	EAD 350141-00-1106 Edition 2017 Fire stopping and Fire Sealing Products, Linear Joint and Gap Seals
	European Technical Assessment:	ETA-20/1115 of 30/12/2020
	Technical Assessment Body:	Instytut Techniki Budowlanej
	Notified body/ies:	1488, 2812

7 DECLARED PERFORMANCE/S

7.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E: sealant thickness ≤ 21 mm No performance assessed: sealant thickness > 21 mm
Resistance to fire	Annex A

7.2 Hygiene, health and the environment (BWR 3)

Performance				
No performance assessed				
Air permeability under positive air pressure on outdoor face				
Pressure differential, Pa	Air flow through the test rig with plain plasterboard specimen, m³/h	Air flow through specimen with sealant, m³/h		
1	0.04	0.00		
2	0.07	0.00		
4	0.14	0.00		
8	0.27	0.00		
10	0.33	0.00		
15	0.46	0.00		
20	0.68	0.00		
30	1.07	0.00		
40	1.40	0.00		
50	1.67	0.00		
60	1.91	0.00		
80	2.35	0.00		
100	2.90	0.00		
	No performance Air permeability Pressure differential, Pa 1 2 4 8 10 15 20 30 40 50 60 80	No performance assessed Air permeability under positive air pressure differential, Pa		



Essential characteristic	Performance				
	Air permeabili	Air permeability under positive air pressure on indoor face			
	Pressure differential, Pa	Air flow through the test rig with plain plasterboard specimen, m³/h	Air flow through specimen with sealant, m³/h		
	1	0.04	0.00		
	2	0.07	0.00		
	4	0.14	0.00		
Air permeability	8	0.27	0.00		
(material property)	10	0.33	0.00		
	15	0.46	0.00		
	20	0.68	0.00		
	30	1.07	0.00		
	40	1.40	0.00		
	50	1.67	0.00		
	60	1.91	0.00		
	80	2.35	0.00		
	100	2.90	0.00		
Water permeability (material property)	No performan	No performance assessed			

7.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Mechanical resistance and stability	No performance assessed
Resistance to impact / movement	No performance assessed
Adhesion	No performance assessed
Durability	Use category: Type Z ₁
Movement capability	No performance assessed (non-movement joints)

7.4 Protection against noise (BWR 5)

No performance assessed.

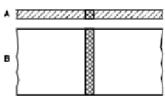
7.5 Energy economy and heat retention (BWR 6)

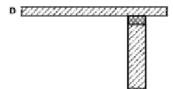
No performance assessed.

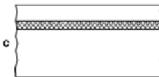


Additional provisions

- Sikacryl-620 Fire shall be applicable only to straight parallel edge surfaces of linear joints or gaps.
- Floor joint seals cannot be stepped and should be covered by e.g. wire mesh or floor finishes.
- Possible orientation of the linear joint seals is presented in fig. A1 and Table A1.









Key



joint seal



wall - front view



wall or floor - section

- A linear joint in a horizontal test construction
- B vertical linear joint in a vertical test construction
- C horizontal linear joint in a vertical test construction
- D horizontal wall joint abutting a floor, ceiling or roof
- E horizontal floor joint abutting a wall

Fig. A1. Possible orientation of linear joint seals

Table A1

Seal type tested orientation	Possible orientation in accordance with fig. A1
А	A, D
В	В
С	С

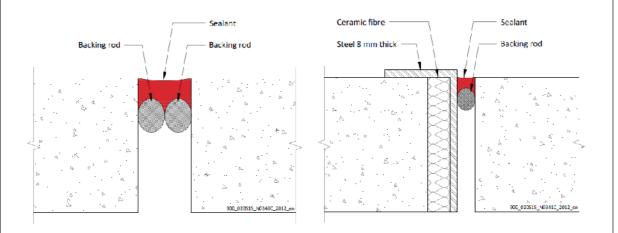
Sikacryl-620 Fire	Annex A1 of European Technical Assessment ETA-20/1115
Additional provisions	

Declaration of Performance

Sikacryl®-620 Fire 76196613 2021.01 , ver. 1 1213



Fig. A2. Horizontal linear joint seal of Sikacryl-620 in rigid floors thickness of ≥ **150 mm** (with sealant to the unexposed face).



Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A2 and Annex A1:

Depth of the sealant	Backing material	Substrates*	Seal face orientation	Fire resistance class
	PE Backing Rod	AAC - AAC	unexposed face	EI 180 E 240 – H – X – F – W 12
2 : 1 ratio				EI 120 E 240 - H - X - F - W 13-49
(2 = width,				EI 180 E 240 - H - X - F - W 50
1 = depth)	depth)		1400	EI 60 E240 - H - X - F - W 12
		AAC - steel		EI 30 E 240 - H - X - F - W 13-50
* AAC – Autoclaved Aerated Concrete				

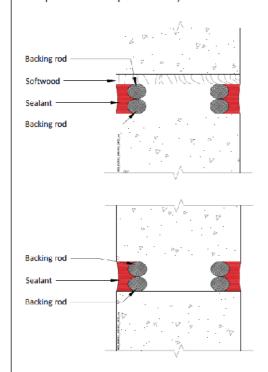
Sikacryl-620 Fire	Annex A2	
Installation details and resistance to fire classification of linear joint seals	of European Technical Assessment ETA-20/1115	

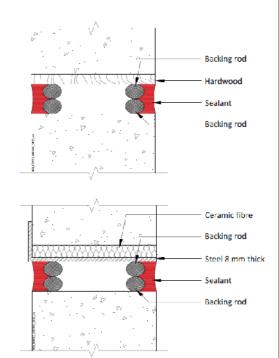
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Sikacryl®-620 Fire 76196613 2021.01 , ver. 1 1213



Fig. A3. Vertical linear joint seal of Sikacryl-620 in rigid walls thickness of ≥ 150 mm (with sealant to the unexposed and exposed face).





Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A3 and Annex A1:

Depth of the sealant	Backing material	Substrates*	Seal face orientation	Fire resistance class
		AAC - AAC	both unexposed and exposed face	El 240 – V – X – F – W 12
				EI 240 – V – X – F – W 13-50
	vidth, PE Backing	AAC – softwood**		EI 60 E 120 - V - X - F - W 12
				EI 120 – V – X – F – W 13-49
2 : 1 ratio				EI 180 - V - X - F - W 50
(2 = width, 1 = depth)		AAC – hardwood***		EI 120 – V – X – F – W 12-49
. ,				EI 180 - V - X - F - W 50
		AAC - steel		El 90 E 240 – V – X – F – W 12
				EI 90 E 240 - V - X - F - W 13-49
				EI 120 E 240 - V - X - F - W 50
* AAC – Autoclaved Aerated Concrete				
** softwood density minimum 410 kg/m³, fixing centres 300 mm				
*** hardwood density minimum 680 kg/m³, fixing centres 300 mm				

Sikacryl-620 Fire	Annex A3
Installation details and resistance to fire classification of linear joint seals	of European Technical Assessment ETA-20/1115

Declaration of Performance

Sikacryl®-620 Fire 76196613 2021.01, ver. 1 1213



8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR - SPECIFIC TECHNICAL DOCUMENTATION

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name: Tomasz Gutowski

Function: Corporate Standardization

and Approvals

At Warsaw on 25 January 2021

Name: Tatiana Ageyeva

Function: Standardization and Approvals

At Warsaw on 25 January 2021

End of information as required by Regulation (EU) No 305/2011

FULL CE MARKING



14

Sika Services AG, Zurich, Switzerland

76196613

EAD 350141-00-1106:2017

1488, 2812

Fire stopping and fire sealing products, linear joint and gap seals

7.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E: sealant thickness ≤ 21 mm
Resistance to fire	Annex A

7.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	Performance			
Air permeability (material property)	Air permeabil	Air permeability under positive air pressure on outdoor face			
	Pressure differential, Pa	Air flow through the test rig with plain plasterboard specimen, m ³ /h	Air flow through specimen with sealant, m³/h		
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Declaration of Performance

Sikacryl®-620 Fire 76196613 2021.01 , ver. 1 1213



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7.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Durability	Use category: Type Z ₁

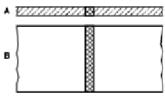
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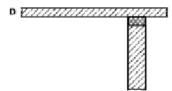
internal use

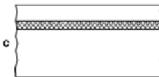


Additional provisions

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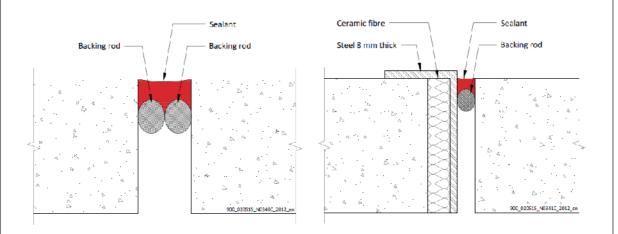
Sikacryl-620 Fire	Annex A1 of European Technical Assessment ETA-20/1115
Additional provisions	

Declaration of Performance

Sikacryl®-620 Fire 76196613 2021.01 , ver. 1 1213



Fig. A2. Horizontal linear joint seal of Sikacryl-620 in rigid floors thickness of ≥ **150 mm** (with sealant to the unexposed face).



Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A2 and Annex A1:

Depth of the sealant	Backing material	Substrates*	Seal face orientation	Fire resistance class
2 : 1 ratio (2 = width, 1 = depth)	PE Backing Rod	AAC - AAC		EI 180 E 240 – H – X – F – W 12
				EI 120 E 240 - H - X - F - W 13-49
				unexposed face
		AAC - steel	luoo	EI 60 E240 - H - X - F - W 12
				EI 30 E 240 - H - X - F - W 13-50
* AAC – Autoclaved Aerated Concrete				

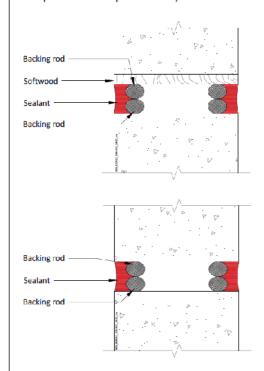
Sikacryl-620 Fire	Annex A2 of European Technical Assessment ETA-20/1115
Installation details and resistance to fire classification of linear joint seals	

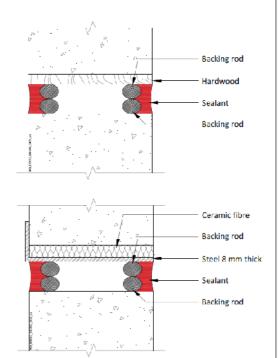
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Fig. A3. Vertical linear joint seal of Sikacryl-620 in rigid walls thickness of ≥ 150 mm (with sealant to the unexposed and exposed face).





Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A3 and Annex A1:

Depth of the sealant	Backing material	Substrates*	Seal face orientation	Fire resistance class
		AAC - AAC	both unexposed and exposed face	El 240 – V – X – F – W 12
				EI 240 – V – X – F – W 13-50
		AAC – softwood**		El 60 E 120 – V – X – F – W 12
	PE Backing Rod			EI 120 – V – X – F – W 13-49
2 : 1 ratio				EI 180 - V - X - F - W 50
(2 = width, 1 = depth)		AAC – hardwood***		EI 120 – V – X – F – W 12-49
				EI 180 - V - X - F - W 50
		AAC - steel		EI 90 E 240 – V – X – F – W 12
				EI 90 E 240 - V - X - F - W 13-49
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** softwood density minimum 410 kg/m³, fixing centres 300 mm				
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Fire stopping and fire sealing products, linear joint and gap seals

For details see accompanying documents

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ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sikas recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the products suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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Sikacryl®-620 Fire 76196613 2021.01 , ver. 1 1213

