

# Sika Boom<sup>®</sup>-420 Fire

## DECLARATION OF PERFORMANCE No. 57188622

1	<b>UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:</b>	57188622
2	<b>INTENDED USE/S</b>	Fire stopping and fire sealing products. Linear joint and gap seals
3	<b>MANUFACTURER:</b>	Sika Services AG Tüffenwies 16 8064 Zürich
4	<b>SYSTEM/S OF AVCP:</b>	1
5b	<b>EUROPEAN ASSESSMENT DOCUMENT:</b>	EAD 350141-00-1106, September 2017; Fire stopping and fire sealing products. Linear joint and gap seals
	European Technical Assessment:	ETA 24/0105 of 16/10/2024
	Technical Assessment Body:	FIRES, S.R.O
	Notified body/ies:	1396

### Declaration of Performance

Sika Boom<sup>®</sup>-420 Fire  
57188622  
2024.12.24 , ver. 1  
1551

**6 DECLARED PERFORMANCE/S**

<b>Essential Characteristics</b>	<b>Performance</b>	<b>AVCP</b>	<b>Harmonised Technical Specification</b>
Reaction to fire	Class E	System 1	
Resistance to fire	Annex A	System 1	
Content, emission and/or release of dangerous substances	NPD	System 1	
Air permeability (material property)	NPD	System 1	
Water permeability (material property)	NPD	System 1	
Mechanical resistance and stability	NPD	System 1	
Resistance to impact /movement	NPD	System 1	EAD
Movement capability	NPD	System 1	350141-00-
Adhesion	NPD	System 1	1106: 2017
Durability	Y2	System 1	
Cycling of perimeter seals for curtain walls	NPD	System 1	
Compression set	NPD	System 1	
Linear expansion on setting	NPD	System 1	
Thermal resistance; Water vapour transmission coefficient	NPD	System 1	
Thermal properties	NPD	System 1	
Water vapour permeability	NPD	System 1	

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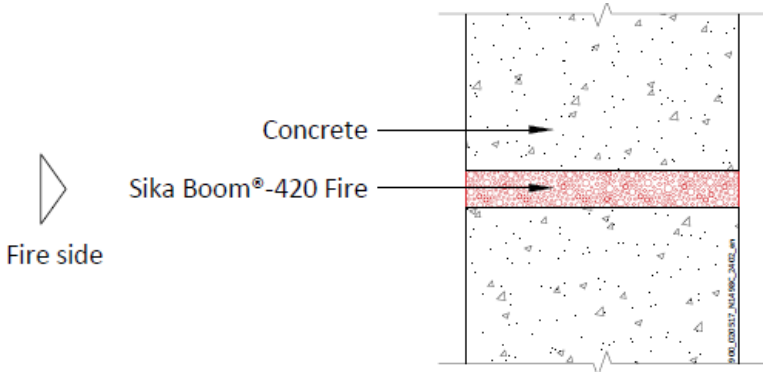
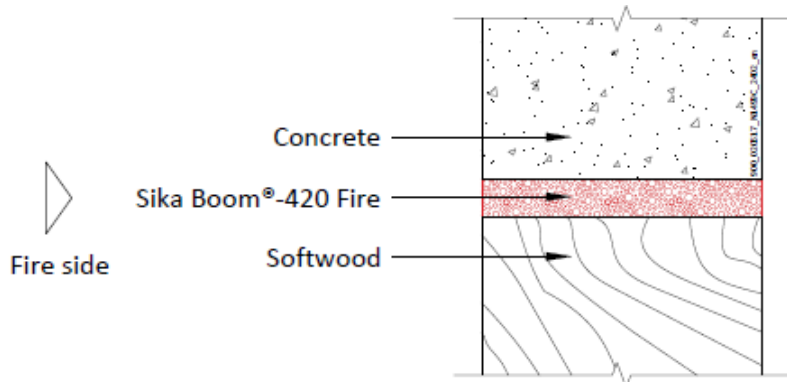
## Annex A - Product performance: fire resistance

Classification of fire resistance No. 13 (acc. to ER 24/0105) provides a considered opinion regarding the use of different applicator types to install the foam Linear Joint Sealing products Sika Boom®-420 Fire. The report compares the “gun” applicator to the “nozzle” applicator.

The results from fire resistance tests of comparison samples described in reports No. 1., 2. and 13 (acc. to ER 24/0105) show that the nozzle applied specimens achieved a small increase in overall Insulation performance than the gun applied specimens. It can therefore be concluded that the alternative “Nozzle Applicator” installation does not have any detrimental effect on the integrity performance of the seal.

### Wall joints

#### Sika Boom®-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 150 mm thick rigid walls

Element	Applicator type	Maximum width of opening [mm]	Seal Depth [mm]	Classification
				
Sika Boom®-420 Fire	gun / nozzle	10	150	EI 180-V-X-F-W 00 to W 10 <sup>1)</sup>
		20	150	EI 60-V-X-F-W 00 to W 20 <sup>1)</sup>
		20	150	EI 60-T-X-F-W 00 to W 20 <sup>2)</sup>
				
Sika Boom®-420 Fire AAC - Softwood	gun / nozzle	20	150	EI 120-V-X-F-W 00 to W 20 <sup>1)</sup>
		20	150	EI 120-T-X-F-W 00 to W 20 <sup>2)</sup>

<sup>1)</sup> Vertical oriented linear joint in vertical construction

<sup>2)</sup> Horizontal oriented linear joint in vertical construction

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## Wall joints

### Sika Boom®-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 150 mm thick rigid walls

Sika Boom®-420 Fire AAC - Softwood The joint of the PU-Foam is covered by Softwood (18 x 50) mm (width x depth) from both sides	gun / nozzle	20	150	EI 90-V-X-F-W 00 to W 20 <sup>1)</sup>
		20	150	EI 120-T-X-F-W 00 to W 20 <sup>2)</sup>
Mineral rock wool of bulk density ≥ 87 kg/m <sup>3</sup> in the middle of the depth with depth 100 mm + PU-Foam (Sika Boom®-420 Fire) depth 25 mm from both sides	gun / nozzle	20	150	EI 240-V-X-F-W 00 to W 20 <sup>1)</sup>
Mineral rock wool of bulk density ≥ 100 kg/m <sup>3</sup> in the middle of the depth with depth 50 mm + PU-Foam (Sika Boom®-420 Fire) depth 50 mm from both sides	gun / nozzle	20	150	EI 180-V-X-F-W 00 to W 20 <sup>1)</sup>

1) Vertical oriented linear joint in vertical construction

2) Horizontal oriented linear joint in vertical construction

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## Wall joints

### Sika Boom<sup>®</sup>-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 150 mm thick rigid walls

Sika Boom <sup>®</sup> -420 Fire ACC – steel	gun / nozzle	20	150	EI 30-V-X-F-W 00 to W 20 <sup>1)</sup>
		20		E 45-V-X-F-W 00 to W 20 <sup>1)</sup>
		20		EI 45-T-X-F-W 00 to W 20 <sup>2)</sup>
		20		E 60-T-X-F-W 00 to W 20 <sup>2)</sup>

This classification is valid according to EN 1366-4 for the following end use applications:

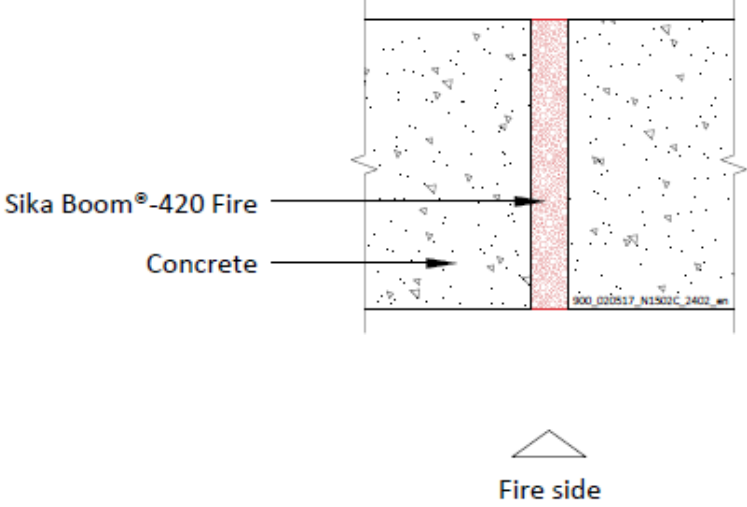
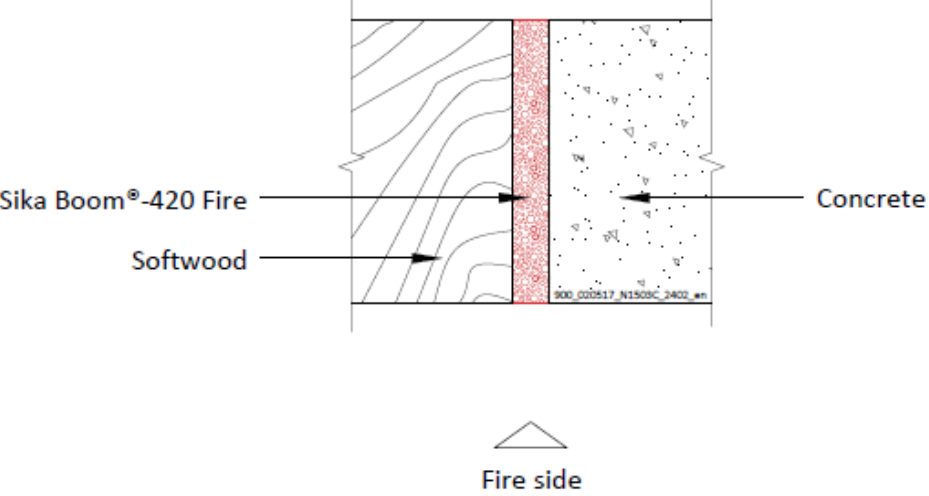
Construction	The construction of the linear joint seal must not change from that tested; Depth of linear seal may be increased;
Orientation of linear joint	Vertical oriented linear joint in vertical construction <sup>1)</sup> ; Horizontal oriented linear joint in vertical construction <sup>2)</sup> ;
Supporting construction	Results are valid for low density rigid wall construction, blockwork and masonry separating elements of a thickness and density equal to or greater than $(650 \pm 200) \text{ kg.m}^{-3}$ ; Results obtained with timber standard supporting construction apply to timber separating elements of a thickness and density equal to or greater than that tested. Results obtained with steel angle standard supporting construction as described above separating element are covering constructions made of metals with a melting point higher than 1000°C.
Seal position	Test results are valid only for the position in which the seal was tested, except that were the linear joint seal was fitted flush to the supporting construction and is exposed to fire.

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## Floor joints

### Sika Boom®-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 200 mm thick rigid walls

Element	Applicator type	Maximum width of opening [mm]	Seal Depth [mm]	Classification
 <p style="text-align: center;">Fire side</p>				
Sika Boom®-420 Fire	gun / nozzle	10	200	<b>EI 120-H-X-F-W 00 to W 10</b>
	nozzle	20	200	<b>EI 120-H-X-F-W 00 to W 20</b>
	gun / nozzle	20	200	<b>EI 90-H-X-F-W 00 to W 20</b>
 <p style="text-align: center;">Fire side</p>				
Sika Boom®-420 Fire ACC - Softwood	gun / nozzle	20	200	<b>EI 120-H-X-F-W 00 to W 20</b>

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## Floor joints

### Sika Boom®-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 200 mm thick rigid walls

Element	Applicator type	Maximum width of opening [mm]	Seal Depth [mm]	Classification
Sika Boom®-420 Fire ACC - Softwood The joint of the is covered by Softwood (18 x 50) mm (width x depth) from both sides	gun / nozzle	20	200	<b>EI 120-H-X-F-W 00 to W 20</b>

This classification is valid according to EN 1366-4 for the following end use applications:

Construction	The construction of the linear joint seal must not change from that tested; Depth of linear seal may be increased;
Orientation of linear joint	Linear joint in a horizontal construction; Horizontal oriented linear joint in a vertical construction;
Supporting construction	Results are valid for low density rigid wall construction, blockwork and masonry separating elements of a thickness and density equal to or greater than $(650 \pm 200) \text{ kg.m}^{-3}$ ; Results obtained with timber standard supporting construction apply to timber separating elements of a thickness and density equal to or greater than that tested. Results obtained with steel angle standard supporting construction as described above separating element are covering constructions made of metals with a melting point higher than $1000^\circ\text{C}$ .
Seal position	Test results are valid only for the position in which the seal was tested, except that were the linear joint seal was fitted flush to the supporting construction and is exposed to fire. In case the linear seal was fitted flush to the supporting construction and is exposed to fire, the seal can be installed at any position in the wall / floor.

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**7 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR -  
SPECIFIC TECHNICAL DOCUMENTATION**

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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:

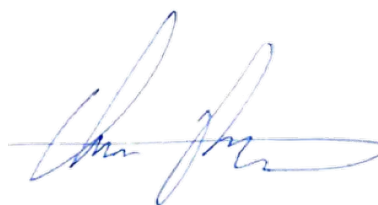
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Name : Anders Beier  
Function: General Manager  
At Farum on 11 February 2025

Name : Stan Petersen  
Function: Head Distribution  
At Farum on 11 February 2025



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End of information as required by Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC Text with EEA relevance

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## FULL CE MARKING

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Sika Services AG, Zurich, Switzerland
DoP No. 57188622
Notified Body 1396
Reaction to Fire Class E
Durability Y <sub>2</sub>
Resistance to Fire Annex A

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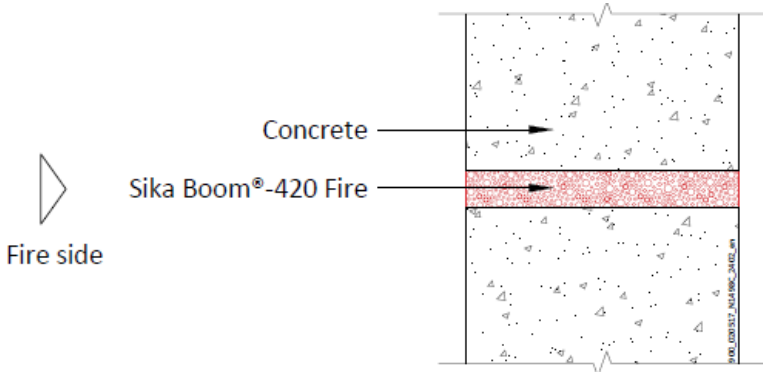
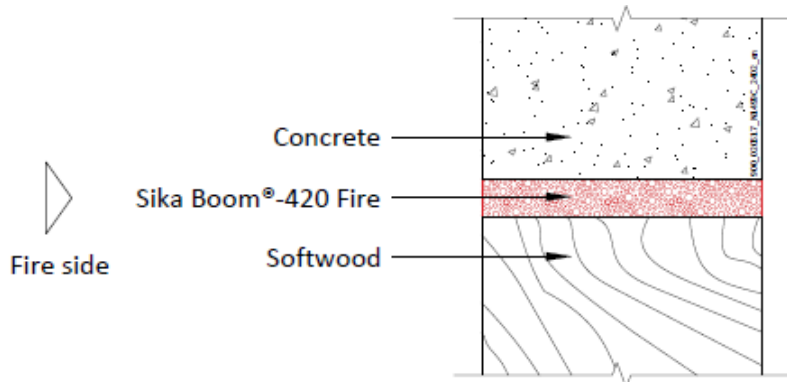
## Annex A - Product performance: fire resistance

Classification of fire resistance No. 13 (acc. to ER 24/0105) provides a considered opinion regarding the use of different applicator types to install the foam Linear Joint Sealing products Sika Boom®-420 Fire. The report compares the “gun” applicator to the “nozzle” applicator.

The results from fire resistance tests of comparison samples described in reports No. 1., 2. and 13 (acc. to ER 24/0105) show that the nozzle applied specimens achieved a small increase in overall Insulation performance than the gun applied specimens. It can therefore be concluded that the alternative “Nozzle Applicator” installation does not have any detrimental effect on the integrity performance of the seal.

### Wall joints

#### Sika Boom®-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 150 mm thick rigid walls

Element	Applicator type	Maximum width of opening [mm]	Seal Depth [mm]	Classification
				
Sika Boom®-420 Fire	gun / nozzle	10	150	EI 180-V-X-F-W 00 to W 10 <sup>1)</sup>
		20	150	EI 60-V-X-F-W 00 to W 20 <sup>1)</sup>
		20	150	EI 60-T-X-F-W 00 to W 20 <sup>2)</sup>
				
Sika Boom®-420 Fire AAC - Softwood	gun / nozzle	20	150	EI 120-V-X-F-W 00 to W 20 <sup>1)</sup>
		20	150	EI 120-T-X-F-W 00 to W 20 <sup>2)</sup>

<sup>1)</sup> Vertical oriented linear joint in vertical construction

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Sika Boom®-420 Fire AAC - Softwood The joint of the PU-Foam is covered by Softwood (18 x 50) mm (width x depth) from both sides	gun / nozzle	20	150	EI 90-V-X-F-W 00 to W 20 <sup>1)</sup>
		20	150	EI 120-T-X-F-W 00 to W 20 <sup>2)</sup>
Mineral rock wool of bulk density ≥ 87 kg/m <sup>3</sup> in the middle of the depth with depth 100 mm + PU-Foam (Sika Boom®-420 Fire) depth 25 mm from both sides	gun / nozzle	20	150	EI 240-V-X-F-W 00 to W 20 <sup>1)</sup>
Mineral rock wool of bulk density ≥ 100 kg/m <sup>3</sup> in the middle of the depth with depth 50 mm + PU-Foam (Sika Boom®-420 Fire) depth 50 mm from both sides	gun / nozzle	20	150	EI 180-V-X-F-W 00 to W 20 <sup>1)</sup>

<sup>1)</sup> Vertical oriented linear joint in vertical construction

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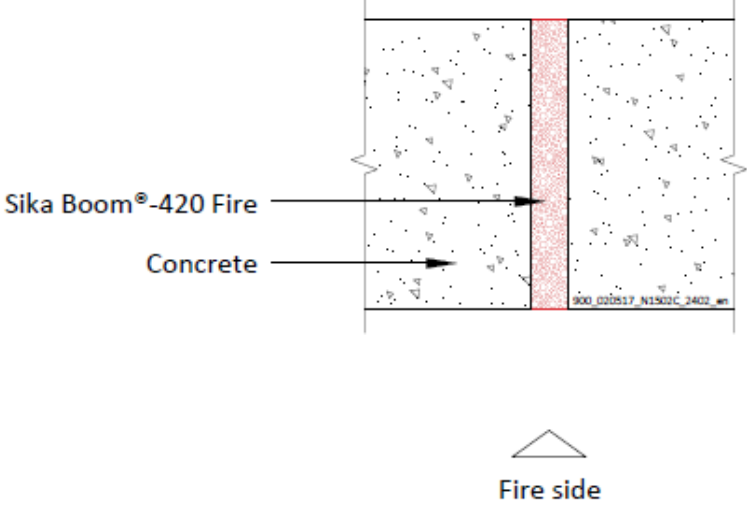
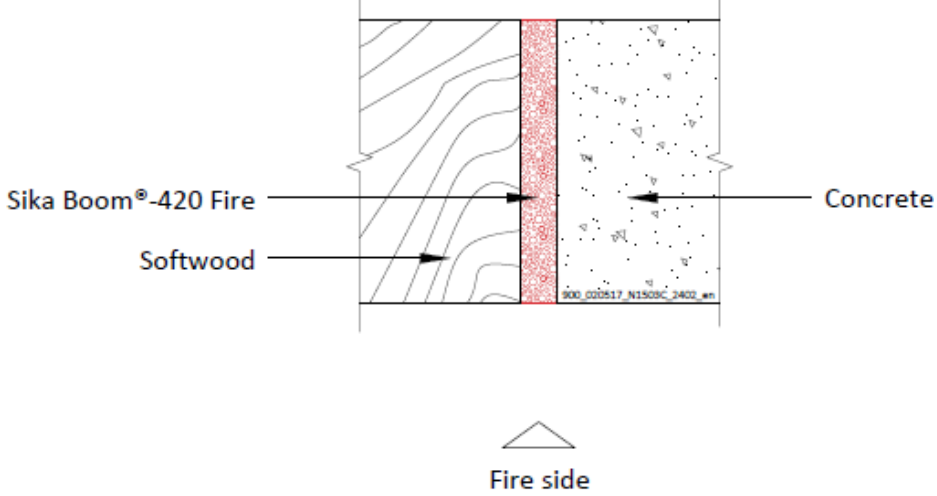
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Seal position	Test results are valid only for the position in which the seal was tested, except that were the linear joint seal was fitted flush to the supporting construction and is exposed to fire.

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## Floor joints

### Sika Boom®-420 Fire (gun or nozzle applicator application (combi application)) Linear Joint Seals in ≥ 200 mm thick rigid walls

Element	Applicator type	Maximum width of opening [mm]	Seal Depth [mm]	Classification
 <p style="text-align: center;">Fire side</p>				
Sika Boom®-420 Fire	gun / nozzle	10	200	<b>EI 120-H-X-F-W 00 to W 10</b>
	nozzle	20	200	<b>EI 120-H-X-F-W 00 to W 20</b>
	gun / nozzle	20	200	<b>EI 90-H-X-F-W 00 to W 20</b>
 <p style="text-align: center;">Fire side</p>				
Sika Boom®-420 Fire ACC - Softwood	gun / nozzle	20	200	<b>EI 120-H-X-F-W 00 to W 20</b>

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EAD 350141-00-1106:2017

Fire Stopping, Fire sealing & Fire protective product

<http://dop.sika.com>

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## CE MARKING TO BE PLACED ON THE LABEL

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Sika Services AG, Zurich, Switzerland
DoP No. 57188622
Notified Body 1396
For details see ETA 24/0105 of 16.10.2024 and accompanying documents
EAD 350141-00-1106:2017
Fire Stopping, Fire sealing & Fire protective product

<http://dop.sika.com>

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### ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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### LEGAL NOTE

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or endusers of the product have been given in good faith based on our own experiences and based of approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Denmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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