

Sikalastic® M 640

DECLARATION OF PERFORMANCE

No. 16911086

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	16911086
2	INTENDED USE/S	ETA 24/ 0043/ edition 2024, used as European. Assessment Document (EAD 030350-00-0402) Liquid-applied roof waterproofing using kits based on polyurethane
3	MANUFACTURER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	AUTHORISED REPRESENTATIVE:	
5	SYSTEM/S OF AVCP:	System 3
6a	EUROPEAN ASSESSMENT DOCUMENT:	ETA 24/ 0043/ edition 2024, used as European. Assessment Document (EAD 030350-00-0402)
	European Technical Assessment:	European Technical Assessment ETA 24/ 0043 of 19/ 01/ 2024
	European Technical Assessment:	Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc)
	Notified body/ies:	1219

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7 DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonized Technical Specification
SYSTEM			
Minimum thickness	1.2mm	System 3	EAD 030350-00-0402
Water vapor diffusion resistance factor (μ)	1100	System 3	
Resistance to wind loads	>50KPa	System 3	
Resistance to plant roots	NPD*	System 3	
Statement on dangerous substances	Does not contain any	System 3	
Resistance to slipperiness	NPD*	System 3	
	Sikalastic® M 640 + Sikalastic® M 640 Sikalastic® 670 TC	System 3	
External fire performance	Broof (t1,t4)		
Fire reaction	Class E		
Expected working life	W3 (25 years) W2 (10 years)	System 3	
Climatic zone of use	S (Severe)		
User loads	P1 P3	System 3	
Roof slopes	S1 to S4		
Minimum surface temperatures	TL3 (-20°C)		
Maximum surface temperatures	TH4 (+90°C)		

NPD*: No Performance Determined

7.1. Safety in case of fire (BWR 2)

Basic requirement for construction works 2: Safety in case of fire		
Essential characteristic	Relevant clause in EAD	Performance
External fire performance	2.2.1	Broof (t1): pitches < 20° and support A1-A2 Broof (t4): pitches < 10° and support A1-A2
Reaction to fire	2.2.2	E

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7.2 Hygiene, health and environment (BWR 3)

Essential characteristic	Relevant clause in EAD	Performance	
Content, emission and/or release of dangerous substances	2.2.3	NPD*	
Resistance to water vapour	2.2.4	$\mu = 1100$ (thickness 1.2 mm)	
Watertightness	2.2.5	Watertight	
Resistance to wind loads	2.2.6	Delamination strength: Pass (> 50 kPa)	
		Concrete: 3.2 MPa	
		Ceramic: 1.7 MPa	
		Fiber cement: 0.9 MPa	
Resistance to dynamic indentation (23 °C)	2.2.7.1	Support steel/concrete: I3 (10 mm)	
Resistance to static indentation (23 °C)	2.2.7.2	Support steel/concrete: L4 (250 N)	
Resistance to fatigue movement (1000 cycles) (-10 °C)	2.2.8	Pass	
Resistance to the effects of low surface temperatures (-20 °C)	2.2.9.1	Dynamic Indentation Support steel/concrete: I3 (10 mm)	
Resistance to high temperatures effects	2.2.9.3	Static indentation - Support steel/concrete:	
		90 °C	L1 (70)
		80 °C	L2 (150)
		80 °C with SIKALASTIC® 670 TC	L3 (200)
		60 °C	L4 (250)
Resistance to heat ageing (W2:100 – W3: 200 days)	2.2.10.1	Dynamic Indentation (-20 °C) Support steel/concrete: I3 (10 mm)	
		Fatigue movement (50 cycles) at -10 °C: Pass	
		Tensile properties T. Strength (MPa) (initial / W2-W3): 8.8 / 3.6 – 3.7 Elongation (%) (initial / W2 –W3): 450 / 170 - 213	
Resistance to UV radiation in the presence of moisture (W2 2000h – W3 5000 hours)	2.2.10.2	Dynamic Indentation Support steel/concrete: I3 (10 mm)	

		Tensile properties T. Strength (MPa) (initial / W2 – W3): 8.8 / 5.3 -8 Elongation (%) (initial / W2 – W3): 450 / 670 - 500	
Resistance to water ageing (30 - 60 days)	2.2.10.3	Static indentation	
		30 d 90 °C + SIKALASTIC® 670 TC	L3 (200N)
		30 - 60 days at 90 - 30 °C	L1 (70)
		Delamination strength: Pass (>50 kPa) Concrete: 2.6 – 1.8 Mpa	
Resistance to plant root	2.2.11	NPD	
Effects of variations in kit components and site practices	2.2.12	Dynamic Indentation 5 °C and 40 °C Support steel/concrete: I3 (10 mm)	
		Tensile properties 5 °C T. Strength (MPa) // Elongation (%): 8.8 // 452 40 °C T. Strength (MPa) // Elongation (%): 7.3 // 481	
Effects of day joints	2.2.13	1,5 Mpa	

NPD*: No Performance Determined

7.3. Safety and accessibility in use: (BWR 4)

Basic requirement for construction works 4: Safety and accessibility in use		
Essential characteristic	Relevant clause in EAD	Performance
Slipperiness	2.2.14	NPD*

NPD*: No Performance Determined

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**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.

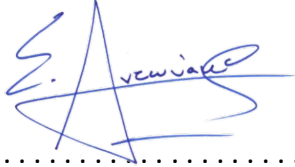
Signed for and on behalf of the manufacturer by:

Name: Stamatis Antonakos
Function: TMM Waterproofing &
Roofing


Name: Angeliki Zacharopoulou
Function: QEHS Manager

At Athens on 26 February 2024

At Athens on 26 February 2024



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

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Sika Services AG, Zürich, Switzerland
DoP No. 16911086
Notified Body 1219
ETA 24/ 0043/ edition 2024, used as European Assessment Document (EAD 030350-00-0402)
Liquid-applied roof waterproofing using kits based on polyurethane
http://dop.sika.com

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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 Sika's 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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