SikaPlan[®] FJ-System

Vapour control / waterproofing system for ventilated facades

System	The SikaPlan [®] FJ-system is used to pro	ovide vapour control lavers and waterproof	
Description	barriers for ventilated facades.		
Uses	For ventilated façades: The flexible SikaPlan [®] FJ membranes are fixed between structure and the instal cladding units (or windows etc.) using SikaBond [®] -FJ adhesive. This provides a secure and durable vapour control and waterproof seal. SikaPlan [®] FJ membran- are used for wide movement and connection joints, which must be watertight in:		
	Residential and commercial buildin	ngs etc	
Characteristics / Advantages	 Fast and secure application. Very easy to apply. Very flexible membrane. No pre-treatment of membrane an Good adhesion on substrate and r Alternative membrane grades ava Suitable for use on uneven substrate Adjustment of membrane possible Ideally suited for use in site condit No additional mechanical fixings n 	d substrates. nembrane. ilable. ates. until 30 min. after fixing. ions. ecessary.	
Tests			
Approval / Standards	SikaPlan FJ-05 and SikaPlan FJ-70 DIN 4102, Part 1, Building material class B2 Water vapour transmission according to DIN 53122-1		
Product Description	SikaPlan [®] FJ-05 and SikaPla	an [®] FJ-70	
	layers and waterproof barriers for	ventilated facades.	
Form	SikaPlan [®] FJ-05	SikaPlan [®] FJ-70	
Colours	Anthracite	Anthracite	
Packaging	Roll of 25 m Width: From 10 cm up to 50/ 130 cm (10/ 15/ 20/ 25/ 30/ 35/ 40/ 45/ 50/130)	Roll of 25 m Width: From 10 cm up to 50/130 cm (10/ 15/ 20/ 25/ 30/ 35/ 40/ 45/ 50/130)	

Storage



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Storage Conditions / Shelf Life	Unlimited if stored properly in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.			
Technical Data	SikaPlan [®]	FJ-05	SikaPlan [®] FJ-70	
Chemical Base	Elastic EPD	M fibre reinforced.	Elastic Butyl fibre reinforced.	
Areal Weigth	420 g/m ²		600 g/m ²	
Thickness	0.35 mm		0.45 mm	
Density	1.45 g/cm ³ 1.50 g/cm ³		1.50 g/cm ³	
Diffusion Resistance Coefficient µ	12 887		145 850	
Equivalent Air Layer Thickness s _d -Value	~ 5 m		~ 70 m	
Fire Rating	B2		B2	
Service Temperature	-40°C to +9	O°C	-40°C to +90°C	
Mechanical / Physical Properties	SikaPlan [®] FJ-05 SikaPlan [®] FJ-70		SikaPlan [®] FJ-70	
Elongation at Break	Longitudinal:20%Longitudinal:20%Transverse:180%Transverse:180%		Longitudinal: 20% Transverse: 180%	
Tear Propagation Resistance	Longitudinal: 20 N/mmLongitudinal: 17 N/mmTransverse: 12 N/mmTransverse: 16 N/mm		Longitudinal: 17 N/mm Transverse: 16 N/mm	
Resistance	SikaPlan [®] FJ-05		SikaPlan [®] FJ-70	
Ozone Resistance	Good		Good	
System Information Application Conditions /	0.1 DL ®			
Limitations	SikaPlan [®] FJ-05 SikaPlan [®] FJ-70		SikaPlan [°] FJ-70	
Product Description	+5°C to +40°C +5°C to +40°C SikaBond [®] -FJ			
Uses	1-part	adhesive designed for	the SikaPlan [®] -FJ System.	
Form				
Colour	Dark grey			
Packaging	600 ml unipacs, 20 sausages per box.			
Storage				
Storage Conditions / Shelf -Life	12 months from date of production if stored properly in undamaged original sealed containers in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.			
Technical Data				
Chemical Base	1-part Poly	urethane, moisture curir	ng.	
Density	1.30 kg/l		(DIN 53	479)
Skinning- / Laying Time	60 min.	(+23°C / 50r. h.)		
Curing Rate	3 mm/24h	(+23°C / 50 r. h.)		

Service Temperature -40°	C to +70°C
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Mechanical / Physical Properties

Tear Strength	~ 7.0 N/mm ²	(DIN 53 515)	
Shore A Hardness	~ 40 after 28 days (+23°C / 50% r. h.)	(DIN 53 505)	
E-Modulus	~ 0.7 N/mm ²	(DIN EN ISO 8340)	
Elongation at Break	~ 400% (+23°C / 50% r. h.)	(DIN 53 504)	
Elastic Recovery	> 70% (+23°C / 50% r. h.)	(DIN EN ISO 7389 B)	

System Information

System Structure	The system configuration as described must be fully complied with and may not be changed.		
Application Details			
Consumption / Dosage			
	Material	Application	Consumption
	SikaBond [®] -FJ Unipac 600ml	Triangular bead 8 x 10 mm	~ 44ml / m ¹ , corresponds to 13m ¹ / Unipac 600 ml
	SikaPlan [®] FJ		1m ¹ / m ¹
Substrate Quality	Clean and dry, homogeneous, even, free from oils and grease, dust and loose or friable particles. Paint, cement laitance and any other contaminants must be removed.		
Substrate Preparation	For adhesion no priming is required. Clean surface by brush and/or vacuum.		
Applications Conditions / Limitations			
Substrate Temperature	During application and until SikaBond [®] -FJ has fully cured the substrate must be +5°C min. and +35°C max.		
Ambient Temperature	+5°C min. / +35°C max.		
Substrate Humidity	Dry		
Relative Air Humidity	Between 30% and max. 90%.		
Dew Point	The substrate must be at least 3°C above dew point to reduce the risk of condensation.		



Notes on Application / Limitations	This product should only be used by trained and experienced contractors. SikaPlan [®] FJ-70 is in generally applied on the building side with higher vapour pressure (warmer building side). SikaPlan [®] FJ-05 is generally applied on the building side with lower vapour pressure (cooler building side).
	Ensure adequate provision of insulation (mineral wool or similar) within the joint prior to sealing to prevent thermal bridging or internal condensation.
	Design details should be confirmed by the responsible engineer.
	SikaPlan [®] FJ-05 SB and SikaPlan [®] FJ-70 SB are not resistance to mineral oils, petroleum, benzene, fuel, and toluene etc. SikaPlan [®] FJ is not suitable for permanent immersion or where there will be standing water.
Notes	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Health and Safety Information	
Protective Measures	To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. During application and curing in closed rooms, pits and shafts, etc., sufficient ventilation must be provided. Uncured material is water pollutant and must not be discharged into drains drainage systems or the ground water, waterways or the ground.
	Local regulations as well as health and safety advice on packaging labels must be observed.
Important Notes	Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
	Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the material safety data sheet.
Legal Notes	
	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 product's 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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