Product Data Sheet Edition 11/11/2014 Identification no: 02 04 02 03 001 0 000004 Sikadur®-31 SBA S-04

Sikadur®-31 SBA S-04

Segmental bridge adhesive

Product Description	Sikadur®-31 SBA S-04 is a solvent-free, thixotropic, structural two part adhesive especially formulated for segmental bridge construction.				
Uses	■ Segmental bridge adhesive for use on substrate temperatures of +10°C to +20°C				
Characteristics / Advantages	Sikadur®-31 SBA S-04 has the following advantages:				
	Meets and / or exceed International and National Standards (such as FIP, BS, ASTM etc.)				
	Lubricates the surface and makes location of the keys easier				
	High strength and high modulus of elasticity				
	High initial and ultimate strengths				
	 Impermeable to liquids and water vapour Minimal water absorption Suitable for dry and damp concrete surfaces (moisture tolerant) 				
					Hardening is not affected by humidity
		Solvent free			
	Hardens without shrinkage				
	Different coloured components (for mixing control)				
	■ No primer needed				
	Good mechanical resistance				

Product Data

Form					
Colours	Part A: Part B: Part A+B mixed:	White Black Concrete grey			
Packaging	Part A: 4.50 kg pla	6 kg (A+B) Pre batched unit. Part A: 4.50 kg plastic container Part B: 1.50 kg plastic container			
Storage					
Storage Conditions / Shelf Life	and undamaged p	2 months from date of production if stored properly in original unopened, sealed nd undamaged packaging, in dry conditions at temperatures between +5°C and 40°C. Protect from direct sunshine.			



Technical Data						
Chemical Base	Epoxy resin					
Density	1.7 kg/l ± 0.1 kg/l (Part A+B	mixed) (at +2	7°C)			
Sag Flow	Flow at 9.5mm (According to FIP 5.3 with measurement according to ASTM D2730)					
-ug : .c	(Requirement: Flow at minimum thickness of 3 mm)					
Squeezability	(According to FIP 5.4)					
·	Squeeze load		Squeeze area			
	15 kg		>5'000 mm ²			
	200 kg		~7'000 mm²			
Layer Thickness	30 mm max.					
	When using multiple units, one after the other. Do not mix the following unit until the previous one has been used in order to avoid a reduction in handling time.					
Change of Volume	Shrinkage / Creep: Hardens without shrinkage.					
Thermal Stability	Heat Deflection Temperature (HDT): > 50°C (According to ASTM D648)					
	Curing conditions: 7 days / +20°C					
Mechanical / Physical Properties						
Compressive Strength	(According to FIP 5.12 and IS 9162-			FIP 5.12 and IS 9162-1979)		
	Curing time	Temperature		Compressive strength		
	24 hours	+10°C		≥45 N/mm²		
	7 days	+10)°C	≥75 N/mm²		
Shear Strength	(According to FIP 5.15, Shear strength-Slant prism test					
	Temperature	, ,		Shear strength		
	+10°C		> 12 N/mm ²			
	71214/11111					
Resistance						
Thermal Resistance	Meets the requirements of F	FIP 5.10, DIN 5	53458 and AS	TM D648.		
System Information						
Application Details						
Substrate Quality	Concrete should be cured for at least 28 days, (depends on minimal requirement of strengths) and have an open textured profile. Any cement laitance should be removed. Substrate must be sound and free of all loose or friable particles with a minimum compressive strength 25 N/mm² and a minimum pull off 1.5 N/mm². Substrate must be clean and free of all contaminants such as dirt, oils and grease, surface treatments or coatings etc.					
	Substrate must be dry or mat damp and free from any standing water, ice etc					
Substrate Preparation	Concrete: The surfaces must be cleaned and mechanically prepared to achieve the desired substrate quality.					

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Application Conditions / Limitations				
Substrate Temperature	+10°C min. / +20°C max.			
Ambient Temperature	+10°C min. / +20°C max.			
Material Temperature	Sikadur®-31 SBA S-04 must be at a temperature of between +10°C and +20°C for application.			
Substrate Moisture Content	When applied to mat moisture concrete, brush the adhesive well into substrate.			
Dew Point	Beware of condensation!			
	Substrate temperature during application must be at least 3°C above dew point.			
Application Instructions				
Mixing	Part A: Part B = 3:1 (by weight)			
Mixing Time		spindle attached to a (max. 600 rpm) until consistency and a unmixing. Then, pour the stir again for approximations are spindle attached to a consistency and a unmixing.	ner for at least 3 minutes with a mixing a slow speed electric drill the material becomes smooth in niform grey colour. Avoid aeration while ne whole mix into a clean container and 1 more minute at low speed to keep air imum. Mix only that quantity which can be e.	
Application Method / Tools	Apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, or with hands protected by gloves.			
Cleaning of Tools	Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.			
Potlife/ Open Time	Quantity: (100gm for Pot life test)		(According to FIP 5.1 and 5.2)	
	Temperature		+20°C	
	Pot life		~ 25 minutes	
	Open time		~ 60 minutes	
			dener are mixed. It is shorter at high ires. The greater the quantity mixed, the	
Value Base	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.			
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.			
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			

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