Product Data Sheet Edition 01/01/2018 Identification no: 02 04 02 03 001 0 000004 Sikadur®-31 SBA S-02

Sikadur®-31 SBA S-02

Segmental bridge adhesive

Product Description	Sikadur®-31 SBA S-02 is a solvent-free, thixotropic, structural two part adhesive especially formulated for segmental bridge construction. ■ Segmental bridge adhesive for use on substrates at +25°C to +45°C			
Uses				
Characteristics / Advantages	Sikadur®-31 SBA S-02 has the following advantages: Meets and / or exceed International and National Standards (FIP, BS, ASTM etc.) Lubricates the surfaces and makes location of the shear 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 Thixotropic: non-sag in vertical and overhead applications Solvent free Hardens without shrinkage Different coloured components (for mixing control) No primer needed Good chemical resistance			

Product Data

Form					
Colours	Part A: Part B: Part A+B mixed:	white black concrete grey			
Packaging	6 kg (A+B) Pre ba	tched unit.			
	Part A: 4.00 kg plastic container				
	Part B: 2.00 kg plastic container				
Storage					
Storage Conditions / Shelf-Life	and undamaged p	om date of production if stored properly in original unopened, sealed ged packaging, in dry conditions at temperatures between +5°C and ct from direct sunshine.			



Technical Data						
Chemical Base	Epoxy resin					
 Density	1.90 kg/l + 0.1 kg/l (Part A+B mixed) (at +27°C)					
Sag Flow	Flow at 9.5mm (According to FIP 5.3 with measurement according to ASTM D2730)					
	(Requirement: Flow at minimum thickness of 3 mm).					
Squeezability	(According to FIP 5.4)					
	Squeeze Load		Squeeze Area			
	15 kg		~5000 mm²			
	200 kg			~7000 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	Hardens without shrinkage.					
Thermal Stability	Heat Deflection Temperature (HDT): > 50°C (According to ASTM D648)			(According to ASTM D648)		
	Curing conditions: 7 days / +25°C					
Mechanical / Physical Properties						
Compressive Strength	(According to FIP 5.12 and IS 9162-1979)					
	Curing time	Tempe	rature	Compressive strength		
	24 hours	+25°C		>60 N/mm²		
	7 days	+25	S _C C	>75 N/mm²		
Shear Strength	(According to FIP 5.15, Slant shear cylinder test)					
	Temperature		Shear strength			
	+25°C		> 12 N/mm²			
Resistance						
Thermal Resistance	Mosta the requirements of F	ID F 10 and A	CTM DG40			
- Thermal Resistance	Meets the requirements of F	TP 5. TO ATIO A	3 I WI D040.			
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.					

Application Conditions / Limitations				
Substrate Temperature	+25°C min. / +45°C max.			
Ambient Temperature	+25°C min. / +45°C max.			
Material Temperature	Sikadur®-31 SBA S-02 must be at a temperature of between +25°C and +45°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 = 2:1 (by weight)			
Mixing Time	spindle attached (max. 600 rpm) u consistency and while mixing. The container and still speed to keep air	gether for at least 3 minutes with a mixing to a slow speed electric drill until the material becomes smooth in a uniform grey colour. Avoid aeration en, pour the whole mix into a clean ragain for approx. 1 more minute at low rentrapment at a minimum. Mix only that an be used within its potlife.		
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	Quantity: (100 gm)	(According to FIP 5.1 and 5.2)		
	Temperature	+45°C		
	Pot life	~ 30 minutes		
	Open time	~ 65 minutes		
	The pot life begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife.			
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.			



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